CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, January 3, 1907.

CONTENTS

CONSTRUCTION NEWS:
Plans and Specifications on File 1
List of Contracts Pending 1
Railways 2
Electric Railways 2
Light and Power Plants 2
Bridges 3
Buildings 3
Water Supply and Irrigation 4
Sewerage 5
Garbage Disposal and Street Cleaning 5
Streets and Roads 5
Manufacturing Plants 6
Miscellaneous Contracts 6
U. S. Possessions and Cuba 6
Foreign Contracts 6
Contract Prices 7
Engineering Material Prices 7
CIVIL SERVICE EXAMINATIONS 8
INDUSTRIAL NOTES 8
PROPOSALS 8

CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.) and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close.	Work.	Place.	On file.	See issue
Jan.				
4	Pumping engines	Phila. Pa.	S. & B. S.	12-13
5	Blasting	Portsmouth, N. H.	S.	12-13
*5	Subway	West Point, N. Y.	P., S. & B. S.	12-27
*8	Asphalt plant	Toronto, Ont.	P., S. & B. S.	12-27
*8	Dredging	New York, N. Y.	S. & B. S.	12-20
*9	Dam, etc.	Mitchell, Neb.	P., S. & B. S.	1- 3
12	Dredges, Panama		S. & B. S.	12-27
15	Water-works	Pineville, La.	S. & B. S.	1- 3
19	Wharf	New Orleans, La.	S.	12-27
26	Crematory	Pensacola, Fla.	S. & B. S.	1- 3
Feb.				
*4	Sewers	Cape Girardeau, Mo.	S. & B. S.	1- 3
Mar.				
*1	Pipe, etc.	Winnipeg, Man.	S. & B. S.	1- 3

*Work advertised in Engineering News.

LIST OF CONTRACTS PENDING.

LIGHT, HEAT AND POWER PLANTS.

Bids close.	Work.	Place.	On file.	See issue
Jan. 4.	Boilers, Clay Center, Kan. Advertised, Eng. News, Dec. 20.		Dec.	20
Jan. 5.	Subway, West Point, N. Y. Advertised, Eng. News, Dec. 20 to Jan 3.		Dec.	20
Jan. 10.	Electric equipment, Pasadena, Cal.		Dec.	6
Jan. 14.	Generating plant, Winnipeg, Man. Advertised, Eng. News, Jan. 3.		Jan.	3
Jan. 15.	Power-house, Nanticoke, Pa. Advertised, Eng. News, Dec. 20 and 27.		Dec.	20
Jan. 30.	Power building, Washington, D. C. Advertised, Eng. News, Jan. 3 to 24.		Jan.	3
Feb. 1.	Gas works, Richmond, Va. Advertised, Eng. News, Dec. 6.		Dec.	6
Mar. 7.	Lighting, Natchez, Miss. Advertised, Eng. News, Dec. 20 and 27.		Dec.	20

BRIDGES.

Jan. 3.	Bridge	Urbana, Ill.	Dec.	27
Jan. 3.	Plans	Lafayette, La.	Dec.	20
Jan. 4.	Bridge	Manistee, Mich. Advertised, Eng. News, Dec. 13.	Dec.	13
Jan. 4.	Complete bridge	Cincinnati, Ohio.	Jan.	3
Jan. 4.	Bridge	Alma, Wis.	Jan.	3
Jan. 7.	Two bridges	Girard, Kan.	Jan.	3
Jan. 7.	Bridges	York, Neb.	Dec.	20
Jan. 8.	Bridge	Hattiesburg, Miss.	Dec.	20
Jan. 8.	Bridges	Waverly, Iowa	Jan.	3
Jan. 8.	Bridge	Mifflinville, Pa.	Jan.	3
Jan. 9.	Bridge	Syracuse, N. Y.	Jan.	3
Jan. 9.	Bridges	Walla Walla, Wash.	Dec.	20
Jan. 9.	Bridges	Fremont, Neb.	Dec.	27
Jan. 9.	Bridges	Creston, Iowa.	Dec.	27
Jan. 12.	Bridges	Wichita, Kan.	Dec.	27
Jan. 15.	Bridges	Colfax, Wash.	Dec.	27
Jan. 16.	Drawbridge	Cambridge, Mass. Advertised, Eng. News, Dec. 27.	Dec.	27
Jan. 16.	Bridges	Nebraska City, Neb.	Jan.	3
Jan. 16.	Bridge	Memphis, Tenn.	Dec.	27
Feb. 5.	Bridges	Salinas, Cal.	Jan.	3
Feb. 8.	Bridges	Hammond, Ind.	Jan.	3

BUILDINGS.

Jan. 3.	Boilers, etc.	Panama	Dec.	27
Jan. 3.	High school	Syracuse, N. Y.	Dec.	27
Jan. 4.	Plumbing system, etc.	Buffalo, N. Y.	Dec.	27
Jan. 4.	High school	Buffalo, N. Y.	Dec.	27
Jan. 4.	Coal pockets	Philadelphia, Pa. Advertised, Eng. News, Dec. 6 to 27.	Dec.	6
Jan. 4.	Light-house	Baltimore, Md. Advertised, Eng. News, Dec. 6.	Dec.	6
Jan. 5.	Brewery	Strathcona, Alta.	Dec.	27
Jan. 5.	Improving stable	Washington, D. C. Advertised, Eng. News, Dec. 27.	Dec.	27
Jan. 7.	School	New York, N. Y.	Dec.	27
Jan. 7.	Post-office	Newport, R. I. Advertised, Eng. News, Dec. 6 and 13.	Dec.	6
Jan. 7.	Building	Oklahoma, Okla.	Jan.	3
Jan. 8.	Hospital school	New York, N. Y.	Dec.	27
Jan. 9.	Court-house	Towner, N. Dak.	Jan.	3
Jan. 10.	Work shop	New York, N. Y.	Jan.	3
Jan. 10.	Foundations	Atlanta, Ga.	Dec.	13
Jan. 14.	Building	Cheyenne, Wyo. Advertised, Eng. News, Dec. 20 to Jan. 10.	Dec.	20
Jan. 14.	Bank, office building	Shreveport, La.	Dec.	27
Jan. 15.	Plans	Carthage, Ill.	Dec.	27
Jan. 15.	Post-office extension	Dallas, Tex. Advertised, Eng. News, Dec. 13 and 20.	Dec.	13
Jan. 15.	Elevators	Washington, D. C. Advertised, Eng. News, Jan. 3 and 10.	Jan.	3
Jan. 16.	Mess-hall	Talkiai, Ariz.	Dec.	20
Jan. 30.	Post-office	Providence, R. I. Advertised, Eng. News, Jan. 3 and 10.	Jan.	3
Jan. 30.	Marble work	Washington, D. C. Advertised, Eng. News, Jan. 3 to 24.	Jan.	3
Jan. 31.	Heating	Crawfordville, Ind.	Dec.	27
Feb. 1.	Leprosy hospital	Hawaii Advertised, Eng. News, Dec. 13 and 20.	Dec.	13
Feb. 1.	Factory	Kokomo, Ind.	Dec.	6
Feb. 4.	Court-house	New Orleans, La.	Dec.	27
Feb. 8.	Library	University, N. Dak.	Nov.	15
Apr. 15.	Plans	Ottawa, Ont.	Dec.	20

WATER SUPPLY AND IRRIGATION.

Jan. 4.	Pumping engines	Philadelphia, Pa. Advertised, Eng. News, Dec. 6 to 27.	Dec.	6
Jan. 5.	Supplies	Albuquerque, N. Mex.	Dec.	27
Jan. 5.	Gate valves	Chicago, Ill.	Jan.	3
Jan. 7.	Water-works	Rolla, Mo.	Dec.	20
Jan. 7.	Well	California, Mo.	Jan.	3
Jan. 9.	Pipe, etc.	Coalgate, Ind. T. Advertised, Eng. News, Dec. 27 and Jan. 3.	Dec.	27
Jan. 9.	Dam, etc.	Mitchell, Neb. Advertised, Eng. News, Nov. 22 to Jan. 3.	Nov.	22
Jan. 10.	Water supply	Elkhart, Ind.	Nov.	29
Jan. 14.	Boilers	Winnipeg, Man. Advertised, Eng. News, Jan. 3.	Jan.	3
Jan. 14.	Pipe	Melrose, Mass. Advertised, Eng. News, Jan. 3.	Jan.	3
Jan. 15.	Water mains	Cleveland Heights, Ohio.	Jan.	3
Jan. 15.	Water-works	Bisbee, Ariz. Advertised, Eng. News, Dec. 13 to Jan. 3.	Dec.	13
Jan. 15.	Pumps	Meadville, Pa.	Dec.	20
Jan. 15.	Water-works	Pineville, La.	Dec.	20
Jan. 15.	Water tunnel, etc.	Gary, Ind. Advertised, Eng. News, Dec. 20 to Jan. 3.	Dec.	20
Jan. 22.	Reservoir embankment	Granite, Colo. Advertised, Eng. News, Dec. 20 to Jan 3.	Dec.	20
Jan. 23.	Pipe	New Orleans, La. Advertised, Eng. News, Nov. 15 to Jan. 17.	Nov.	15
Jan. 23.	Water-works	Corning, N. Y. Advertised, Eng. News, Jan. 3 and 10.	Jan.	3
Jan. 24.	Steel bars	Mitchell, Neb. Advertised, Eng. News, Dec. 13 to Jan. 3.	Dec.	13
Jan. 28.	Pumping engines	Muskegon, Mich.	Dec.	20
Mar. 1.	Pipe and specials	Winnipeg, Man. Advertised, Eng. News, Dec. 20 to Feb. 21.	Dec.	20
No date.	Water development	Buena Vista, Ga. Advertised, Eng. News, Dec. 27.	Dec.	27

SEWERAGE.

Jan. 7.	Sewers	Rolla, Mo.	Dec.	6
Jan. 7.	Sewers	Beresford, S. Dak.	Dec.	27
Jan. 7.	Sewers	Webb City, Mo.	Dec.	27
Jan. 8.	Sewers	East St. Louis, Ill.	Jan.	3
Jan. 9.	Sewer	New Albany, Ind.	Jan.	3
Jan. 10.	Sewers	New York, N. Y.	Jan.	3
Jan. 10.	Sewer	Argenta, Ark.	Jan.	3
Jan. 12.	Sewers	Merchantville, N. J. Advertised, Eng. News, Dec. 13, 27 and Jan. 10.	Dec.	13
Jan. 15.	Sewers	Bisbee, Ariz. Advertised, Eng. News, Dec. 13 to Jan. 3.	Dec.	13
Jan. 15.	Disposal plant	Bisbee, Ariz. Advertised, Eng. News, Dec. 13 to Jan. 3.	Dec.	13
Jan. 21.	Sewers	Wichita, Kan. Advertised, Eng. News, Dec. 13 to 27.	Dec.	13
Jan. 22.	Sewers	Cedar Falls, Iowa Advertised, Eng. News, Dec. 20 and 27.	Dec.	20
Jan. 22.	Sewers	Van Buren, Ark. Advertised, Eng. News, Dec. 27 and Jan. 3.	Dec.	27
Jan. 23.	Sewers	Orangeburg, S. C. Advertised, Eng. News, Dec. 27 to Jan. 17.	Dec.	27
Jan. 26.	Drains	Greenfield, Ind.	Jan.	3
Feb. 4.	Sewer	Cape Girardeau, Mo. Advertised, Eng. News, Dec. 20 and 27.	Dec.	20
Mar. 18.	Sewers	Burlington, Iowa. Advertised, Eng. News, Dec. 27.	Dec.	27

STREETS AND ROADS.

Jan. 4.	Paving	Steubenville, Ohio	Dec.	27
Jan. 4.	Paving	Cincinnati, Ohio	Dec.	20
Jan. 5.	Roads	Terre Haute, Ind.	Dec.	20
Jan. 7.	Paving	Newburgh, N. Y. Advertised, Eng. News, Dec. 6 and 13.	Dec.	6
Jan. 7.	Macadam	Amityville, N. Y. Advertised, Eng. News, Dec. 6 and 13.	Dec.	6
Jan. 7.	Roads	Knox, Ind.	Dec.	20
Jan. 7.	Paving	New Orleans, La.	Jan.	3
Jan. 7.	Road	Erie, Pa.	Jan.	3
Jan. 8.	Road	Spencer, Ind.	Jan.	3
Jan. 8.	Roads	Bedford, Ind.	Dec.	20
Jan. 8.	Roads	Bloomfield, Ind.	Dec.	20
Jan. 8.	Roads	Columbus, Ind.	Dec.	20
Jan. 8.	Roads	Versailles, Ind.	Dec.	20
Jan. 8.	Asphalt plant	Toronto, Ont. Advertised, Eng. News, Dec. 20 and 27.	Dec.	20
Jan. 8.	Paving	Troy, Ohio.	Dec.	27
Jan. 9.	Grading, etc.	New York, N. Y.	Dec.	27
Jan. 9.	Roads	Bloomington, Ind.	Dec.	20
Jan. 9.	Roads	Rockville, Ind.	Dec.	20
Jan. 9.	Paving	Lake Charles, La.	Jan.	3
Jan. 9.	Paving	New York, N. Y.	Jan.	3
Jan. 10.	Grading, etc.	New York, N. Y.	Jan.	3
Jan. 10.	Road	Smethport, Pa.	Jan.	3
Jan. 10.	Paving	Norfolk, Va. Advertised, Eng. News, Dec. 20 to Jan 3.	Dec.	20
Jan. 10.	Macadam	Norfolk, Va. Advertised, Eng. News, Dec. 20 to Jan. 3.	Dec.	20
Jan. 15.	Macadam	Cleveland Heights, Ohio	Dec.	27
Jan. 16.	Paving	Cincinnati, Ohio	Dec.	27

MISCELLANEOUS CONTRACTS.

Jan. 4.	Garbage collection	Lakewood, Ohio.	Jan.	3
Jan. 5.	Naval supplies	Washington, D. C.	Jan.	3
Jan. 5.	Blasting	Portsmouth, N. H.	Dec.	13
Jan. 5.	Subway	West Point, N. Y. Advertised, Eng. News, Dec. 20 to Jan. 3.	Dec.	27
Jan. 5.	Breakwater	Ottawa, Ont.	Dec.	27
Jan. 7.	Pier	Nicolet, Que.	Dec.	20
Jan. 7.	Dock	Michigan City, Ind.	Jan.	3
Jan. 8.	Tile ditch	Bridgeport, Ind.	Jan.	3
Jan. 8.	Naval supplies	Washington, D. C.	Dec.	20
Jan. 8.	Dredging	New York, N. Y. Advertised, Eng. News, Dec. 6 to 27.	Dec.	6
Jan. 9.	Monument	Mt. Vernon, Ind.	Nov.	22
Jan. 9.	Telephone supplies	Australia (Foreign).	Dec.	20
Jan. 9.	Piling	Creston, Iowa	Dec.	27
Jan. 9.	Ditch	Breckenridge, Minn.	Jan.	3
Jan. 10.	Cement	Detroit, Mich.	Dec.	27
Jan. 10.	Street railway franchise	Salem, Mass.	Dec.	13
Jan. 11.	Wharf work	Alaska.	Dec.	27
Jan. 11.	Street sprinkling	St. Louis, Mo.	Jan.	3
Jan. 12.	Dredges	Panama	Dec.	27
Jan. 12.	Canal	Panama	Dec.	20
Jan. 14.	Telephone supplies	Australia (Foreign).	Dec.	20
Jan. 14.	Engineering supplies	Panama	Jan.	3
Jan. 14.	Timber	Winona, Minn.	Jan.	3
Jan. 15.	Subway	Jacksonville, Fla.	Jan.	3
Jan. 15.	Crane runways	Callejo, Cal.	Dec.	13
Jan. 15.	Surveying, sea marsh	N. Orleans, La.	Dec.	27
Jan. 17.	Wharf	Key West, Fla. Advertised, Eng. News, Des. 6 to Jan. 3.	Dec.	6
Jan. 19.	Wharf	New Orleans, La.	Dec.	27
Jan. 21.	Dump scows	Cleveland, Ohio. Advertised, Eng. News, Dec. 20 to Jan. 10.	Dec.	20
Jan. 22.	Cable cars, engines	Washington, D. C.	Jan.	3
Jan. 24.	Traveling crane	West Point, N. Y. Advertised, Eng. News, Jan. 3 to 17.	Jan.	3
Jan. 25.	Garbage disposal	St. Louis, Mo.	Jan.	3
Jan. 26.	Crematory	Pensacola, Fla.	Jan.	3
Jan. 29.	Piers	North Chicago, Ill.	Dec.	13
Feb. 4.	Grading electric railway	Bisbee, Ariz.	Dec.	27
Feb. 5.	Naval supplies	Washington, D. C.	Jan.	3
Feb. 5.	Naval supplies	San Francisco, Cal.	Jan.	3
Feb. 11.	Railway, Spain (Foreign)		Dec.	6
Mar. 18.	Tunnel, New Zealand (Foreign). Advertised, Eng. News, Sept. 13 to Mar. 14.		Sept.	13
Apr. 12 ('07).	Ditches	Brookings, S. Dak.	Oct.	18

CIVIL SERVICE EXAMINATIONS.

Jan. 3.	Aids, etc.	Washington, D. C.	Dec.	13
Jan. 3.	Civil Engr.	Philippines	Dec.	13
Jan. 8.	Bacteriologist	New York, N. Y.	Dec.	20
Jan. 9.	Topographic & Cartographic Draftsmen	Washington, D. C.	Dec.	13
Jan. 9-10.	Computer, Draftsman	Wash., D. C.	Dec.	13
Jan. 9.	Arch. Draftsman	San Francisco, Cal.	Dec.	20
Jan. 10.	Inspector of Pilfers	New York, N. Y.	Dec.	20
Jan. 16.	Rodman	Boise, Idaho	Jan.	3
Jan. 16.	Forest planting asst.	Washington, D. C.	Jan.	3
Jan. 17.	Marine Engineers	New York, N. Y.	Jan.	3
Jan. 23.	Engineer & Plumber	Fort Omaha, Neb.	Jan.	3
Jan. 29.	Computer	Washington, D. C.	Jan.	3

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

BANGOR & AROOSTOOK.—Company has petitioned the State Railroad Commissioners to authorize an extension of its line from Township 4 Range 9, in Piscataquis County, to the Plantation of St. Francis on the St. John River. This extension is from the main line of the Bangor & Aroostook R. R. through the wild lands of Maine to the border township upon the St. John River. The length is about 145 miles, and will open up to railroad facilities the wilderness lying north of the Canadian Pacific Ry. and west of the Bangor & Aroostook system of railroads. M. Burpee is Ch. Engr., Houlton, Me.

BAUXITE & NORTHERN.—J. R. Gibbons, Supt., Bauxite, Ark., advises us that contracts will be let at once for building this proposed line from Bauxite north to point of intersection of the St. Louis, Iron Mountain & Southern Ry., 2½ miles long. Right-of-way and capital are secured and surveys are made. R. B. Mellons is Pres., Pittsburg, Pa.; E. C. Sargent is Ch. Engr., at Bauxite. Noted on Dec. 27 and Nov. 22.

BUFFALO, LAKE ERIE & NIAGARA.—The New York State Board of Railroad Commissioners has granted a certificate of "public necessity" to this company, which proposes to build a freight belt railroad 36 miles long around the city of Buffalo. The road will extend from a point west of Bay View northeast through Hamburg into West Seneca and north into Cheektowaga. Thence it will go diagonally into Tonawanda and from a point in the Mile Strip between Buffalo and Tonawanda, a mile from the river, a branch road will be built into Buffalo to connect with the New York Central at the International bridge. Another branch will run on the Mile Strip to connect with the Falls branch of the New York Central and a third branch will run to the New York Central tracks at Two Mile creek. The officers are: Edward Michael, Pres.; John N. Scatcherd, Vice-Pres.; James C. Conroy, Treas.; Harlow C. Curtis, Secy. C. C. Conkling, 798 Ellicott Sq., Buffalo, is Ch. Engr.

CANADIAN NORTHERN.—According to maps filed with the Government, the Canadian Northern Railway Company contemplates the construction of the following lines in Ontario in addition to the proposed railways from Toronto to Ottawa and Montreal: From Toronto to Hamilton, Brantford, Woodstock, London, Chatham, Windsor and Detroit. Brantford to Port Dover. Ancaster to Galt, Waterloo, Berlin and Goderich. Brantford to Waterloo, Berlin, Mount Forest and Owen Sound. Owen Sound to Collingwood, and a junction in the township of Pickering with the main line east of Toronto. Kincardine to Barrie, Orillia and Washago, from which latter place there will be an extension to the Georgian Bay. Pembroke to Peterboro and Cobourg. Arnprior to a point on the St. Lawrence in Leeds Township, east of Howe Island. There will also be a line from Hawkesbury to a point of junction with the main line in Bastard Township, south of Rideau Lake.

CENTRAL OF GEORGIA.—Company is building freight and construction yards near Fort McPherson, Atlanta, Ga. The work will cost over $500,000. Grading is now under way and the yards will cover altogether 400 acres. C. K. Lawrence is Ch. Engr., at Savannah, Ga.

CHICAGO, BURLINGTON & QUINCY.—This company has awarded contracts to the KILPATRICK BROS. & COLLINS CONSTRUCTION CO., of Beatrice, Neb., it is said, for building a line from Lincoln, Neb., to Nulford, 20 miles, to eliminate existing grades.

COLORADO SOUTHERN, NEW ORLEANS & PACIFIC.—Contract has been let to the KENEFICK, HAMMOND & QUIGLEY CONSTRUCTION CO., Bryant Bldg., Kansas City, Mo., for construction of double-track incline to the Mississippi River at Port Allen, La., for the yards and terminals at that place, and also for the yards and terminals at De Quincy, La. B. B. Gordon is Ch. Engr., at Beaumont, Tex.

COSMOPOLIS & CENTRALIA.—Incorporated in Washington to build a railroad from Cosmopolis south to South Bend and from Cosmopolis east to Centralia. Capital stock, $100,000. Alexander Polson of Hoquiam, Wash., and Robert Polson are the projectors. It is stated that preliminary surveys have been made and that most of the right-of-way has been secured.

HOPATCONG SHORE.—Incorporated in New Jersey to build a railroad from Roxbury, Morris County, to a point in Sussex County, two miles. Capital stock, $100,000. Incorporators: William E. King, Dorastus L. Bryant, Hudson Maxim, Landing, N. J.; Frederick H. Alleman, Summit, N. J.; Eugene Tronell, Morristown, N. J.; Herbert K. Salmon, Ledgewood, N. J.; James H. Neighbour, Dover, N. J. Principal office, Landing, N. J.

MINNEAPOLIS & ST. LOUIS.—Contract is reported to have been let to WINSTON BROS. CO., Globe Bldg., Minneapolis, Minn., for extending the Minnesota, Dakota & Pacific Ry. from Chelsea, S. Dak., the present terminal, to Le Beau, 83½ miles.

NEW YORK CENTRAL.—On Dec. 28, the New York Central Co. purchased the Chicago, Kalamazoo & Saginaw Railway. The purchase price is understood to be about $900,000. H. B. Ledyard, Chn. of the Board of Directors of the Michigan Central, is the new Pres.; J. H. Dewing, of Kalamazoo, Mich., is Vice-Pres. and Gen. Mgr. Extensive improvements are contemplated in the near future. The deal makes three competing lines between Kalamazoo and Grand Rapids—the Lake Shore & Michigan Southern, the Grand Rapids & Indiana and the Michigan Central.

NEW YORK, ONTARIO & WESTERN.—Contract for double-tracking the line between Strongtown and Young's Gap, N. Y., about four miles in length, has been awarded to BELLEW & MERRITT, of Tuckahoe, N. Y.

NORTHERN PACIFIC.—Surveys have been completed for an alternate line from the junction of the Missoula and Clarks Fork rivers near Paradise to St. Regis, Mont., 22 miles, with a maximum grade east-bound of 4%. The construction of this line will permit freight trains to run between Missoula and Spokane without crossing the Bitter Root Mountains over the present grades of 2.2%. In connection with this work the line between Missoula and St. Regis, now operated as a branch, will be improved and the grades reduced to a maximum of 4% eastbound. As noted previously, company has let contract to WINSTON BROS. CO., of Minneapolis, Minn., for straightening its line between Garrison and Missoula, Mont., and double-tracking the entire 73 miles.

ST. LOUIS, OKLAHOMA & PACIFIC.—Incorporated in Oklahoma to build a railroad from Joplin, Mo., via Bartlesville, Ind. T., to Pond Creek, Okla. Capital stock, $7,200,000. Incorporators: George B. Keller, J. J. Curl, H. J. Holm, F. M. Overlees, Bartlesville; W. M. Barnum, Mike Cunyan, Ponca City; Conrad Strecker and J. W. Bird, Fond Creek. F. M. Overlees is Pres.; H. J. Holm is Secy., and Conrad Strecker is Treas.

SEABOARD AIR LINE.—Company has bought 29 acres of land at Cayce, S. C., opposite Columbia, S. C., on the Congaree River, and proposes to build freight yards, shops, etc. W. L. Seddon is Ch. Engr., at Portsmouth, Va.

TEXAS NORTHERN.—Hans Helland, Ch. Engr., Cockrell Bldg., Dallas, advises us that company will let contracts for building between Dallas and Egan, 38 miles, between Jan. 1 and Jan. 10. Surveys are made and capital secured. Right-of-way is partly obtained. B. P. McDonald is Pres., Wilson Bldg., Dallas.

TRANS-CONTINENTAL RY.—A report from Ottawa, Ont., states that the Commissioners will invite bids soon for the following portions of the new road: From Moncton, N. B., to Chipman; from Grand Falls to the Quebec bridge; from Latuque, 40 miles westward, and from Lake Abitibi eastward 150 miles. This leaves the choice between what are known as the central river routes, across a portion of New Brunswick, still open. The Commission has not yet received a final report from the surveyors on this question. H. D. Lumsden is Ch. Engr., at Ottawa.

UNION PACIFIC.—W. C. BRADBURY & CO., Railroad Bldg., Denver, Colo., have received a contract to construct 70 miles of second track for the Union Pacific Railway in Nebraska, from Silver City to Columbus. Cost, $750,000.

The annual report of this company issued on Nov. 27 sums up construction work as follows: The mileage of the three railroads known as the Union Pacific Railroad and auxiliary companies at the end of the fiscal year was 5,694 miles, an increase of 76 miles. The Minodoka & Southwestern was opened for traffic in September, 1905, from Minodoka, Idaho, to Twin Falls, 59 miles. The projected route of this company extends across Snake River to a point on Salmon River, a total of about 85 miles. The Yellowstone Park Railroad from St. Anthony to Morrisville, Idaho, 16 miles, was opened for traffic in June, 1906. The projected route of this company from St. Anthony to the boundary of Yellowstone Park has a total length of 70 miles. The following lines have been projected and are in course of construction by the following named companies or by companies organized in their interest:

Union Pacific.—A line from O'Fallon, Neb., to Northport, about 114 miles, all grades, and of which about 19 miles of main track are laid. A line from Stromsburg to Central City, Neb., about 23 miles, which will probably be completed during this month, and which will considerably shorten the distance between points on the Manhattan and Beatrice branches and points west of Central City. A line from Thayer, Wyo., to the coal mines in Horse Thief Canon, about 12 miles, and a line from the Washington Mine, Colo., to Grant coal mines, about seven miles, will probably be completed by the end of the current calendar year.

Oregon Railroad & Navigation.—An extension of the Elgin branch from Elgin, Ore., to Joseph, about 63 miles, of which about 18 miles are graded. An extension of the St. Johns branch from St. Johns to a point near Troutdale, 20.15 miles, which will form a loop with the present main line to Portland; about three miles of this line are graded.

Malad Valley.—The remaining part of this line, from Garland, Utah, to Malad, Idaho, 31.83 miles in length, was completed during the year and put in operation July 1, 1906.

South Omaha & Western.—The construction of this double-track cut-off line from South Omaha to Lane, Neb., 11.6 miles, which will shorten the distance between South Omaha and Council Bluffs and points west of Lane 8.94 miles, is progressing.

Topeka & Northwestern.—This company was organized to build a line from Menoken to Marysville, Kan., about 70 miles. The line from Menoken to Onaga, Kan., about 38 miles, was opened for traffic Feb. 5, 1906.

Columbia River & Oregon Central.—This company's line from Arlington to Condon, Ore., 45.31 miles, was leased to the Oregon Railroad & Navigation Co., July 1, 1906.

Oregon & Washington.—This company was incorporated to build the line from Portland, Ore., to Puget Sound, about 230 miles. The acquisition of ample terminal properties in the best locations is well advanced in both Tacoma and Seattle, and work on this line will be actively prosecuted when pending applications for the necessary municipal franchises shall be granted.

Oregon, Washington & Idaho.—Under an agreement for construction of a joint line with the Northern Pacific from Texas City, Wash., a point opposite Riparia on the Snake River, to Lewiston, Idaho, about 72 miles, the Oregon, Washington & Idaho was incorporated for the construction of this road. About 15 miles of main track are laid, about 32 miles additional are graded and the entire line will be completed during the next year.

Since the close of the fiscal year, additional companies have been incorporated. The cost of lines in course of construction, of other lines projected, and of additional equipment, will involve an outlay of about $50,000,000. William Ashton is Ch. Engr. of the lines west of Green River, at Salt Lake City.

WEST VIRGINIA CONNECTING R. R.—D. F. Maroney, Pres. of the West Virginia Connecting Railroad Co., has stated that the work of making surveys for the proposed new line from Bellington, W. Va., to Rogersville, near Waynesburg, is progressing rapidly and plans will be completed before long.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

PLAINFIELD, N. J.—Under an offer of $50,000 to the county for a 20-year franchise for a trolley line across the drawbridge between Perth Amboy and South Amboy, made by a syndicate of Philadelphia capitalists, known as the Jersey Central Traction Co., the Good Government Club, of South Plainfield, an organization of citizens similar to a Board of Trade, has appealed to the Middlesex County Freeholders to grant the franchise, so that a trolley line can be built from South Plainfield to Plainfield and to the seashore at Amboy.

JOHNSTOWN, PA.—A press report states that the City Council has considered favorably on second reading the ordinance granting a franchise to the Southern Cambia St. Ry Co., which will use about one mile of city highways in building its line from this city to Ebensburg, the county seat. The ordinance granting a franchise to the Johnstown Terminal Electric Railway Co. has passed second reading. These two measures are being backed by the same people, who expected to spend at least $500,000 in building these lines.

The ordinance granting a franchise to the Johnstown, Ebensburg & Northern Electric Railway Co. has been referred to committee to give its backers an opportunity for another hearing. The ordinances granting franchises to the Johnstown, Woodvale Heights & Conemaugh Street Railway Co. and the Arbutus Park Street Railway Co. have been favorably passed. Noted on Dec. 6 and Nov. 29.

YORK, PA.—According to a press report, the "York County Traction Co. has plans for the construction of a number of important extensions within this county. Work upon four or five lines will be begun this winter or next spring, and all the extensions to the company's system will be constructed in the course of the next few years. Among the proposed new lines, those to Spring Grove, Hanover, Paradise, Loganville, Glen Rock, Wellsville, Dillsburg, Yorkana, East Prospect and Long Level are already laid out, the surveys having been made and right-of-way obtained. The company has accomplished the financing of the project. In the course of time the 21 existing corporations subsidiary to the York Traction Co. will be merged into three corporations—one to control all the railroads, one to govern the power, heating and lighting, and the third to be a land company. The company will apply at once for a charter to construct a line to Spring Grove, and work upon this line will begin as soon as a charter can be obtained. The company would have applied for a charter to build to Hanover, but unexpected difficulties have occurred in purchasing right-of-way. It is also the plan to extend the line from Spring Grove to Hanover." L. C. Mayer, York, is Ch. Engr.

COUDERSPORT, PA.—Estimates of the cost of changing the New York & Pennsylvania Railroad, extending from Shingle House, Pa., to Canisteo, N. Y., a distance of about 60 miles, from a steam to an electric line are being secured, it is reported. G. W. Pierce is Ch. Engr., Canisteo, N. Y.

ASHEVILLE, N. C.—The Asheville Rapid Transit Co. has been chartered to acquire and operate the Asheville Loop Line Railway, branches and extensions. Authorized capital, $500,000. The incorporators are Charles E. Van Bibber, Malden, Mass.; Thomas S. Rollins and John P. Arthur, both of Asheville, N. C. The company has the right to build anywhere within 25 miles of Asheville, and it is said that a line to Weaverville will be constructed. The line to Overlook is first to be built.

WILMINGTON, N. C.—The Board of Aldermen has granted the privilege to the Consolidated Rys., Light & Power Co. to double-track much of its present line and to make important extensions. One of the new tracks will run to Carolina Place, a residential section in East Wilmington. Another line will go to an industrial district in the southern part of the city. A. B. Skelding is Mgr., Wilmington.

BIRMINGHAM, ALA.—The Alabama Railway &Power Co. has been incorporated to build a line from Chattanooga, Tenn., via Alberville to Birmingham, Ala., about 135 miles. The incorporators are H. T. Henderson, of Durango, Colo.; C. L. Young, Jr., J. M. and J. H. Hill, of Fort Payne, Ala., and J. P. Montgomery, of Ashville, Ala.

MIDDLEFIELD, OHIO.—The Cleveland & Sharon Traction Co., which was recently incorporated with a capital of $2,500,000, has completed its organization at Sharon, Pa., by electing the following officers: Pres., Francis B. Morgan, Cleveland, Ohio; Vice-Pres. and Secy., John Blake, Brooklyn, N. Y.; Treas., C. F. Clendenning, New York; Assistant Secy. and Treas., P. F. Morgan, Cleveland, Ohio. The company proposes to build a line from Middlefield, Ohio, to Sharon, Pa. At Middlefield connection is to be made with the Cleveland & [illegible] giving a direct line from Sharon to Cleveland.

KALAMAZOO, MICH.—Organization of the Kalamazoo, Gull Lake & Northern Railway Co. has been completed in Kalamazoo. The officers of the company are: President, J. T. Upjohn, Kalamazoo; Treasurer, [illegible] Huyck, Chicago; Vice-President, and Edward D. Hosmer, Chicago. The franchise gives the line right to construct from Kalamazoo, and part of the line is already laid. The right-of-way to [illegible] through one of the finest sections of Michigan, and the road, when completed entire 17 miles, will give Kalamazoo additional facilities for reaching the finest of the inland lakes. The development of the west shore of Gull Lake will be the most noticeable immediate result of this enterprise.

EAST ST. LOUIS, ILL.—The Illinois & Indiana Electric Railway Co. has been granted a year's extension of time for the completion of its street car line in East St. Louis, although the company was required to file a bond of $5,000 that the line would be in operation at that time. The original franchise was granted in December, 1903, and provided that the road should be completed within the city in one year. The line will run from Fourth St. and Broadway to Market Ave., and through Alta Station to Fireworks Station to Belleville and Waterloo.

STERLING, ILL.—The stockholders of the Rock River Traction Co. have authorized the issuance of bonds to the amount of $2,000,000, the proceeds to be used for the purpose of constructing an electric line from this city to Rock Island, from Rock Island to Geneseo, also to Princeton, and a branch from this city to Morrison. The total distance planned to be covered is 125 miles. The work will commence next spring. Noted fully on Dec. 20.

SHEBOYGAN, WIS.—The Milwaukee & Fox River Valley Ry. Co. has completed its organization. The line will be about 104 miles in length, including sidings. The new line will connect with the Milwaukee Northern at Grofton for Milwaukee, and at Fond du Lac also. The northern terminal will be at Appleton and Kankakee. The line as projected will run through a fine section of the State, serving about four cities of importance and many small towns about six miles apart. The officers of the company are: George Brickbauer, of Elkhart Lake, Pres.; W. H. Phillip, of Fond du Lac, Vice-Pres.; R. H. Crosby, of Fond du Lac, Secy.; Dr. Pullin, of North Fond du Lac, Treas.; J. M. Sacman, of Sheboygan, Mgr. Right-of-way will be all secured this winter and plans perfected for early construction in the spring.

SIOUX CITY, IOWA.—The right-of-way for the Sioux City & Trenton Interurban Railway has been secured from a point a few miles north of Sioux City to Ireton, and the company is now negotiating for an entrance into Sioux City. The company is also trying to come to suitable terms with the Sioux City Traction Co. for an entrance into Sioux City over the tracks of this company.

SPRINGFIELD, MO.—The Springfield Club has pledged itself to secure a franchise through the city, right-of-way to Ash Grove, 18 miles distant, and to raise a cash bonus of $30,000 for the Kansas City, Nevada & Springfield Railroad, which is being promoted by T. P. McDonough, C. C. McFann and W. B. Forsyth, of Chicago. The agreement provides that work shall be commenced on the new electric railway within eight months, and it shall be completed and in operation between Springfield and Nevada, a distance of 95 miles, within two years. The road will be equipped for passenger and freight traffic. Noted on Dec. 13.

CHEYENNE, WYO.—Lee A. Reynolds, of Denver, representing a syndicate, has applied to the City Council for a franchise to construct and operate an electric street railway here.

CARSON CITY, NEV.—T. B. Rickey has purchased the franchise and the right-of-way for an electric line through Carson to the Hot Springs, a distance of about four miles. He may extend the line into Washoe County. Incorporation papers have been filed by T. B. Rickey, F. L. Wildes and P. V. Mighels. The capitalization of the company is $1,000,000.

LEWISTON, IDAHO.—E. D. Thomas, Vice-Pres. of the Commercial Trust Co., of Lewiston, Idaho, makes the announcement that the building of the Lewiston & Grangeville Electric Railway between Lewiston and Grangeville is an assured fact. He is quoted as saying: "Arrangements have been made for the purchase of all supplies, and the contracting engineers will be on the ground in the very near future. The people who are buying the bonds are putting $6,000,000 into the project. Active construction work will be under way in 60 or 90 days, and will be rushed as fast as weather permits."

TORONTO, ONT.—The Toronto Ry. Co. may build a new line to the exhibition grounds at a cost of $125,000. James Gunn is Supt.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

EDDYSTONE, N. J.—Plans are being prepared by Heacock & Hokanson, Archs., Baily Bldg., Philadelphia, for a power-house and storage building, for the Henry Hitner's Sons. Estimated cost, $100,000.

ORANGE, N. J.—The City of Orange has recently awarded contracts for the erection of a new municipal lighting plant, which is to furnish power for the street lights and public buildings. The contract for the electrical machinery was awarded the CROCKER-WHEELER CO., of Ampere, N. J. The equipment will consist of three 150-KW. al-

ternating-current generators, 2,300 V., 200 RPM. This plant is situated within a few miles of the Crocker-Wheeler Company's works, at Ampere, N. J.

PHILADELPHIA, PA.—Plans have been completed by Watson & Huckel, Archs., 1211 Walnut St., for a power-house to be erected at the Lutheran Theological Seminary at Mt. Airy, Philadelphia. It is to be a 1-story stone and steel building, of fireproof construction.

Koelle, Spackman Co., Engrs., 608 Chestnut St., have completed plans for a power-house to be erected at the Commonwealth Brewing Co., and Cambridge Sts. It is to be a 2-story brick and steel, fireproof building.

WASHINGTON, D. C.—Bids are asked until 2 p. m., Jan. 30, by Capt. John Stephen Sewell, Corps of Engr., for the erection of a power plant and for electric wiring for a building for the office of elevators. (Advertised, Engineering News.)

Bids were opened Dec. 26, at the office of Elliott Woods, Supt. of the U. S. Capitol Buildings and Grounds, Washington, D. C., for engines, generators, sub-station apparatus, switchboards and storage batteries for engines, switchboards and storage batteries for the power-house for the Congressional buildings, Washington, D. C. Bids were on the following basis: Sec. A, for the 2,000-KW. steam turbo-engines and alternators; Sec. B, cross-compound steam engine; Sec. C, engine-driven alternators; Sec. D, 75-KW. engine-driven exciter generators; Sec. E, exciter storage battery; Sec. F, synchronous-motor generator sets; Sec. G, switchboard and power station and sub-station machine wiring. Bid 1, for entire equipment under sections A, D, E, F and G; bid 2, for same under B, C, D, E, F and G; bid 3, for equipment of machinery and accessories for power-house under A and B; bid 4 same under B, C and D; bid 5, for exciter storage battery equipment and accessories under E; bid 6, for motor generator sets under F; bid 7, entire equipment of switchboard and power-house and sub-station machinery wiring, under G. Bids received were as follows: C. L. De Muralt & Co., 114 Liberty St., New York, 1, $350,183; alternate for entire equipment as described above by substituting stationary transformers, $456,956; bid 2, $332,721, alternate for same by substituting stationary transformers, $439,494; General Electric Co., Schenectady, N. Y., bid 1, $344,877; Providence Engineering Works, 42 Broadway, New York, bid 4, $239,200; Electric Storage Battery Co., Allegheny Ave. and 19th St., Philadelphia, bid 5, $14,078; alternate, $13,728; Gould Storage Battery Co., 1 West 34th St., New York, bid 5, $15,625; Westinghouse Electric Co., New York, bid 1, $333,728; bid 3, $240,174; bid 5, $14,158; bid 6, $177,578; bid 7, $101,820; MacIntosh & Seymour Co., 26 Cortlandt St., New York, bid 4, $293,335.

DANVILLE, VA.—The RUSSELL MINING & MFG. CO., St. Louis, Mo., has contract for building the basis of new gas plant; to consist of the placing of six half-depth regenerative benches, containing six retorts each, together with all necessary ironwork, at a cost of $10,500. Frank Talbott is Supt., City Electric-Light Plant.

ROANOKE, VA.—James River Water Power Co. has been organized to develop the water power of the James River at Little Tunnel. It is proposed, as soon as all the property desired is obtained, to build a dam across the James River and install an electric plant for transmitting the power to Roanoke, Fincastle, Clifton Forge and Buchanan, Va.

BLANCHE, ALA.—A corps of engineers in charge of J. A. Latham, of Providence, R. I., Ch. Engr., will begin at once making surveys for electrical-power plant to be located on Little River by the Little River Power Co. It is estimated that the development will represent an investment of $1,500,000, and the power obtained will generate an electric current equal to 20,000 HP., which will be transmitted to mills, factories and towns within a radius of 35 miles. R. A. Mitchell, of Alabama City, Ala., is Pres. of the company; H. T. Henderson, of Durango, Colo., Vice-Pres., and O. R. Goldman, of Gadsden, Ala., Secy.-Treas.

NATCHEZ, MISS.—Bids are asked until March 7, by George T. Eisele, City Clk., for lighting the city for a period of 10 years from March 7, 1908. S. B. Stewart is Chn. Lights & Water Com.

BROOKHAVEN, MISS.—The town of Brookhaven, Miss., has recently awarded contracts for a new municipal lighting plant, consisting of one 200-KW. and 100-KW. alternating-current generator, to furnish power and lighting for the street lights, etc. The contract for the generator was secured by the CROCKER-WHEELER CO., of Ampere, N. J. The rating of these machines which are to be furnished are as follows: One 200-KW. engine type alternating-current generator, 3-phase, 60-cycle, 2,300 volts, 200-RPM., and one 100-KW. belt type alternating-current generator, 3-phase, 60-cycle, 2,300 volts, 700-RPM. A 13-KW. generator is to be furnished as exciter for the belt-type generator. This will give the plant a capacity of 300 KW. alternating current.

LAGRANGE, KY.—It is reported that a $10,000 electric-light plant will be established here. Charles Sauer is Pres. of Commercial Club.

FAYETTEVILLE, ARK.—The Boston-Ozark Traction Co., which has been organized by J. C. Bonnell and J. T. Evins to operate interurban railways, will erect a 200,000-HP. plant on White River, and contemplates transmitting electricity for lighting and heating towns within a radius of 100 miles, including Springfield, Mo., Muskogee, Ind. T., Fort Smith and Little Rock, Ark.

STRAWN, TEX.—It is reported that George E. Bennett, Pres. Mt. Marion Coal Mining Co., will install a 600-light electric-light plant and ice plant here.

WAXAHATCHIE, TEX.—A gas plant is to be established here with a capacity of 5,000 cu. ft. an hour. G. W. Alt, of Chicago, Ill., is Supt. of the work.

RUSSELLVILLE, ARK.—T. B. Martin, Jr., of Little Rock, Ark., will install an electric-light plant here.

SPOKANE, WASH.—Washington Water Power Co. will erect a fireproof concrete building, to cost $100,000, at Ross Park, Spokane, to house a $2,000,000 steam plant to develop 30,000 HP. supplemental to the water-power plant at Post Falls, Idaho. Plans are being drawn by the company's engineers and work will begin early next spring, the plant to be completed in August, 1907.

SPOKANE, WASH.—The Washington Water Power Co. has purchased land in Ross Park and will erect a $500,000 electric power plant. H. L. Blecker is Secy.

ELY, NEV.—William V. Lockwood will erect a $100,000 power-house here. It will be equipped with the most modern electrical machinery.

OTTAWA, ONT.—The Ontario Municipal Board has granted permission to the city to pass a by-law empowering it to raise $50,000 for the extension of its electric light service.

PETERBORO, ONT.—The Otonabee Power Co. has tendered for the lease of dam No. 4, on the Otonabee River, belonging to the Dominion Government, and has notified the city that if tender is accepted it will be prepared to furnish any industry locating in the city, power at $15 in blocks of 500 HP.

WINNIPEG, MAN.—Bids are asked until 2:30 p. m., Jan. 14, by the Chairman of Fire, Water and Light Committee for supplying 750-KW. electric generating plant. (Advertised, Engineering News.)

MONCTON, N. B.—The Intercolonial R. R. Co. will develop electric power on the Petitcodiac River. A. Pottinger is Gen. Mgr., at Moncton, N. B.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

PROVIDENCE, R. I.—It is reported that the construction of a bridge over Moshassuck River, at Canal St., is contemplated.

NEW YORK, N. Y.—The Interborough Rapid Transit Co. is building a steel viaduct on Broadway, New York, from the Harlem Ship Canal branch to 242d St., 1.55 miles. T. P. KINGSLEY has contract for the foundation work, the AMERICAN BRIDGE CO., 42 Broadway, for steel structure, and TERRY & TENCH Co., Lexington Ave. and 131st St., for the erection of structure. George H. Pegram, 21 Park Row, is Ch. Engr.

SYRACUSE, N. Y.—Bids are asked by N. V. V. Franchot, Supt. Pub. Works, Albany, until noon, Jan. 9, for work of constructing a lift bridge over the Oswego Canal at North Salina St., Syracuse. The principal quantities in the specifications are: 9,000 cu. yds. all excavation; 1,600 cu. yds. second class concrete; 250 cu. yds. third class concrete; 900 sq. ft. approach pavements; 4,500 sq. ft. Portland cement sidewalks; 30,000 lbs. metal reinforcement; 420,000 lbs. structural steel erected in place; 57,000 lbs. machinery; 236 lin. ft. iron railings.

ALBANY, N. Y.—The bids received by N. V. V. Franchot, Supt. of Public Works, on Dec. 19, for Contract No. 16, Barge Canal work, which is for furnishing and erecting in place various steel highway bridge superstructures, as follows: The McClintock-Marshall Construction Co., 13 Park Row, New York, $71,568; UNITED CONSTRUCTION CO., 467 Broadway, Albany, N. Y., $63,473 (awarded contract); Michael Fitzgerald, Hoosick Falls, N. Y., $66,734; Groton Bridge Co., Groton, N. Y., $67,491; The Lane Bridge Co., Painted Post, N. Y., $44,593; Penn Bridge Co., Beaver Falls, Pa., $67,270; Eastern Steel Co., 71 Broadway, New York, $67,293; Atlantic, Gulf & Pacific Co., 13 Park Row, New York, $68,886. Engineer's estimate is $70,719. Itemized bids may be found under Contract Prices, in this issue.

MIFFLINVILLE, PA.—Bids are asked by J. M. Shumaker, Supt. of Public Ground and Bldgs., Harrisburg, Pa., until noon, Jan. 8, for rebuilding the substructure and superstructure of a bridge over the Susquehanna River, at Mifflinville, Columbia County.

PHILADELPHIA, PA.—The Philadelphia & Reading Ry. Co. has awarded a contract for a four-track steel bridge across Broad St. and Old York Road, near Logan Station, to the AMERICAN BRIDGE CO., 42 Broadway, New York, and the JAMES McGRAW CO., Philadelphia. The bridge is to be of plate girder construction, and will cost about $100,000. The spans crossing Broad St. will consist of three pieces, each weighing 66 tons.

CHARLESTON, W. VA.—The PENN BRIDGE CO., of Beaver Falls, Pa., has been awarded contract by City Council for construction of new bridge over Elk River, at $86,000. This bridge will replace the Keystone bridge. The bids of other companies which were submitted were as follows: The Canton Bridge Co., $89,600; the Toledo Massilon Bridge Co., $89,400; the Owego Bridge Co., $99,900; the Nelson Construction Co., $89,900; York Bridge Co., $90,800; Champion Bridge Co., $98,223.

CHARLESTOWN, W. VA.—Contract has been awarded to the CANTON BRIDGE CO., Canton, Ohio, for building bridge over the Opequon River at Sulphur Springs Ford.

FAIRMONT, W. VA.—The Fairmont & Clarksburg Traction Co. is arranging for the erection of a bridge across the Monongahela River. A. T. Watson, offices with the Fairmont Coal Co., Continental Trust Bldg., Baltimore, Md., is Purchasing Agent.

SPARTANBURG, S. C.—It has been reported that the County Commissioners have awarded contract for constructing a steel bridge over Lawson's Fork, at East Main St., to the AMERICAN BRIDGE CO., 42 Broadway, New York, for $6,000.

GADSDEN, ALA.—The Etowah County Commissioners will arrange for the construction of steel approach to the bridge over the Coosa River.

JOHNSON CITY, TENN.—The South & Western Ry. has ordered 6,900 tons of fabricated steel from the PENNSYLVANIA STEEL CO., Girard Trust Bldg., Philadelphia, Pa., and 600 tons from the KING BRIDGE CO.

HUTCHINSON, KY.—The Council is contemplating plans and estimates for a new bridge over Cow Creek, at Poplar St.

BLUFFTON, OHIO.—A bridge will be constructed across the Wabash River, at Main St., by the commissioners of Wells County. Cost, $15,000.

CINCINNATI, OHIO.—Bids are asked by the County Commissioners until Jan. 4, for constructing substructure and superstructure of a bridge on West Fork Road.

The work of reconstructing the Fourth St. bridge over the Licking River will be commenced early in January. Officials of the South Covington & Cincinnati St. Ry. Co. have drawn up plans for the reconstruction and will submit them to the bridge company immediately. The bridge will be given a new floor and double tracks will be laid by the street railway company for its new line to Newport.

WARREN, OHIO.—The County Commissioners have condemned the north 160-ft. span of South Main St. bridge. Work of repairing or rebuilding will be taken up in the spring.

HAMMOND, IND.—Bids will be received until Feb. 8 by C. W. Hotchkiss, Gen. Mgr. of the Chicago, Indiana & Southern R. R. Co., Chicago, Ill., for construction of three bascule bridges at Hammond. Estimated cost is $250,000.

INDIANAPOLIS, IND.—We are officially advised that no contract was let Dec. 20 for constructing bridge over the White River, at 30th St. The work will be advertised later. H. W. Klausmann is Audr. Marion County.

DETROIT, MICH.—The Michigan Central R. R. Co. has submitted plans to the City Engineer for modern steel bridges over its tracks at 14th, 15th and Baker Sts. H. Ibsen is Acting Bridge Engr., Michigan Central Co., Detroit.

OTTAWA, ILL.—It is reported the city engineer is to prepare plans and specifications for repairing city bridge. Charles F. Wilson is City Engr.

ALMA, WIS.—Bids are asked until Jan. 4 by the supervisors of the town of Naples for building a bridge across Beef River.

INDEPENDENCE, IOWA.—The Board of Supervisors of Buchanan County will soon let contract for steel and wood material for bridges for the year 1907. C. E. Hayes is Cbunty Audr.

IOWA CITY, IOWA.—The contract for construction of the new Iowa River bridge has been let to the IOWA BRIDGE CO., of Des Moines, Iowa, for $17,750.

MANCHESTER, IOWA.—It is reported that the Board of Commissioners of Delaware County will construct a steel bridge over the Maquoketa River. Roy Davis is County Audr.

WAVERLY, IOWA.—Bids are asked until Jan. 8 by the Board of Supervisors for constructing all slough and other bridges ordered for the year 1907. Frank Taber is County Audr.

WINONA, MINN.—Bids are asked until Jan. 14 by H. B. Walling, City Engr., for 84,500 ft. of white oak plank, 16,700 ft. of caps, and 850 ft. of stringers for bridge repair work.

GIRARD, KAN.—Bids are asked until Jan. 7 by the Board County Commissioners for constructing two steel bridges with stone abutments, one to be a 70-ft. steel span over Lighting Creek, on the Osage and Sheridan Township line, and the other to be a 36-ft. steel span over Walnut Creek, five miles east of Walnut.

WICHITA, KAN.—R. N. Dorr, City Clerk, advises us that on Dec. 17 the TOPEKA BRIDGE & IRON CO., Topeka, Kan., was awarded contract to construct ten reinforced concrete bridges across the Wichita Drainage Canal and storm water sewer, at $19,055.

NEBRASKA CITY, NEB.—Bids are asked until noon, Jan. 16, by the Board of County Commissioners of Otoe County for the construction of all such wooden bridges being 16 ft. or more in length, and approaches thereto, as may be ordered by this board to be constructed by the bridge contractor during 1907. Bids are also asked until this date for 1-span steel bridge, 80 ft. in length. Charles H. Busch, County Clk.

MITCHELL, S. DAK.—It is reported the City Council and officers of Mitchell Township are considering construction of a bridge to secure a new entrance to the city.

PERRYVILLE, ARK.—The contract for four steel bridges to be constructed over Fourche LeFave River, at Nimrod, Alpin, Houston and Fourche, has been awarded to the VIRGINIA BRIDGE & IRON CO., Roanoke, Va., for $59,700.

CHANDLER, OKLA.—The contract for constructing three steel bridges has been let to the MISSOURI VALLEY BRIDGE & IRON WORKS, Leavenworth, Kan. J. E. Rea is Clerk, Lincoln County.

ROSWELL, N. MEX.—The contract for constructing a highway bridge near Dexter has been awarded by the Board of County Commissioners to the MIDLAND BRIDGE CO., Kansas City, Mo., at $14,400, for two 155-ft. spans and 15-ft. approach at each end on piles. W. M. Atkinson is Chn. Bd.

ELLENSBURG, WASH.—The contract has been let to the PUGET SOUND BRIDGE & DREDGING CO., Seattle Wash., for construction of a wagon bridge across the Yakima River seven miles north of this city, for $7,450. It is to be a steel structure, with one span, 200 ft. long.

SPOKANE, WASH.—We have been officially informed that WILLIAM OLIVER, 1411 Mallon St., Spokane, has secured contract to construct bridge over the Spokane River at D St., for which bids were received Dec. 14. The contract price is $12,760. The bridge will be built of steel on concrete piers. Charles R. Howard is Deputy Clerk Bd. County Comrs.

DUARTE, CAL.—The Pacific Electric Ry. Co. has awarded the contract to the MERCEREAU CONSTRUCTION CO., of Los Angeles, for what is said to be the largest and costliest reinforced cement bridge west of the Mississippi River. It will span the San Gabriel River east of this city and will be part of the Monrovia branch extension to Glendova. It will consist of 18 57-ft. spans, giving a total length of 1,026 ft. It will cost $150,000, or $50,000 more than the preliminary estimates.

SALINAS, CAL.—Bids are asked until Feb. 5, by the Clerk, Board of Supervisors, for bridges 1,004 ft. long at Chualor, of which 500 ft. consists of Pratt trusses, the remainder being pile trestle approach; also for a bridge at San Ardo, which calls for a bridge 1,880 ft. long, of which 1,100 ft. are trusses, the remainder approach. L. G. Hare, County Surveyor, prepared the plans which were adopted by the Board.

SAN DIEGO, CAL.—Bids are asked for the erection of two bridges, one across Sweetwater River at the entrance of the steel canon, and the other over the Cuyagaman & Eastern Ry. at Alta station; the former to be 100 ft., Howe truss bridge, with 250 ft. of lineal approach; the latter will be of reinforced concrete.

FREDERICTON, N. B.—THE CANADA FOUNDRY CO. has been awarded the contract for constructing a bridge across the St. John River. Cost, $30,000.

PARRY SOUND, ONT.—The Canadian Pacific Ry. Co. will build a steel bridge over the Seguin River. Cost, $300,000.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—Lewis H. Bacon, Arch., 27 School St., has prepared plans for the 3-story Aleppo Temple, 158 × 210 ft., to cost $450,000. James S. Blake is a member of the Subcommittee.

Plans have been prepared by W. W. Dinsmoor, Arch., 28 School St., for constructing a business block for the New England Electric Cab Co., at 169 Huntington Ave. John J. Martin, owner. Cost, $150,000.

PROVIDENCE, R. I.—Bids are asked until 3 p. m., Jan. 30, by James Knox Taylor, Supv. Arch., Washington, D. C., for completion of U. S. post-office, court-house and custom-house at Providence. (Advertised, Engineering News.)

NEW YORK, N. Y.—George H. Anderson, Arch., 945 Sixth Ave., has prepared plans for a 10-story loft building at 140 West 17th St., for the W. J. Galway Building Co. Estimated cost, $175,000.

Plans have been prepared by R. T. Rasmussen, Arch., 39 Graham Ave., Brooklyn, for two 5-story brick stores and tenements at Myrtle and Sumner Aves. Cost, $100,000.

PATERSON, N. J.—It is reported that a Y. M. C. A. building, to cost about $100,000, is under consideration.

WOODBURY, N. J.—The Board of Education, C. A. Madden, Chn., will shortly ask for competitive plans for construction of a new high school building, of stone and brick. The building will have three stories and will cost $50,000.

PHILADELPHIA, PA.—C. B. Comstock, Arch., East End Hotel, Pittsburg, Pa., has prepared plans for a 4-story brick and concrete fireproof, 152 × 165-ft. meat packing and storage house at 30th and Market Sts. The building will cost $225,000 and is to be for the D. B. Martin Co., Land Title Bldg.

It is reported that the Trustees of Temple College are considering plans for the 8-story, 129 × 140-ft. building which it is proposed erecting at Broad and Brown Sts., at a cost of $250,000. John Bowman is a member of the Bldg. Com.

Contract has been awarded to LYNCH BROS., Lippincott Bldg., by the Board of Education to build the Whitehall Annex Public School, at Whitehall, to cost $67,540, and two wings to the Foy School, at Eighth and Wolf Sts., at $22,470. The Board of Education also has awarded contract for wings to the Lewis Elkin School, at D and Clearfield Sts., to DAVID PEOPLES, at $20,000, and wings to the B. R. Comegys School, at 51st St. and Greenway Ave., to B. KETCHAM'S SONS, 1029 Brown St., at $21,395.

Plans have been completed by Wilson, Harris & Richards, Archs., Drexel Bldg., for an office building at Broad and Springarden Sts., for the Baldwin Locomotive Works. The building will be brick and steel, fireproof and six stories.

Ballinger & Perrot, Archs., 1200 Chestnut St., have asked for bids for construction of a warehouse at 30th and Locust Sts., for the Hires Turner Glass Co., to be stone, two stories, 130 × 275 ft.

MILTON, PA.—The School Board, James R. Milton, Pres., contemplates erecting a new high school. It will be a 3-story brick building.

WILLIAMSPORT, PA.—It is contemplated by the Board of Education to erect a high school building, which will be constructed of stone and brick and will have three stories. Cost, $150,000.

SCRANTON, PA.—The Delaware, Lackawanna & Western R. R. Co. will soon have plans prepared for a fireproof passenger station, to be constructed of stone, brick and steel. Cost, $500,000.

ALTOONA, PA.—Oliver & Rothers are reported to have accepted plans for a 6-story furniture store, to be erected at an estimated cost of $100,000.

WASHINGTON, D. C.—John Manner has secured a site at 13th and G Sts. for an office building, to cost about $140,000.

WASHINGTON, D. C.—Bids are asked until Jan. 30, at the office of Elliott Woods, Supt. U. S. Capitol Building and Grounds, Dept. of the Interior, for furnishing and erecting marble work for the Conference Room, Office Bldg., U. S. Senate. (Advertised, Engineering News.)

Bids are asked until noon, Jan. 15, at the office of Elliott Woods, for installing passenger elevators for Office Bldg., House of Representatives. (Advertised, Engineering News.)

ANNAPOLIS, MD.—The contract to erect the Naval Experiment Station at Old Fort Madison across the Severn River from the Naval Academy, is reported to have been awarded to the NOEL CONSTRUCTION CO., German and Calvert Sts., Baltimore, at $157,000.

ROANOKE, VA.—It is reported that the directors of the First National Bank will erect a bank building, at a cost of $100,000.

LYNCHBURG, VA.—Plans are being prepared by James Knox Taylor, Superv. Arch., Washington, D. C., for an addition to the post-office, which will be of stone and steel, fireproof and three stories. Estimated cost, $80,000.

PETERSBURG, VA.—Plans are being prepared by James Knox Taylor for a 3-story addition to U. S. Post-Office. It will be constructed of brick, stone and steel.

LAKE CITY, S. C.—Charles McMillan, Wilmington, N. C., has been commissioned to prepare plans and specifications for building to be erected by the Farmers' and Merchants' Bank.

ST. AUGUSTINE, FLA.—It is reported that the Board of Control has directed plans to be prepared for a $75,000 school for the Deaf and Blind.

ELLISVILLE, MISS.—It is reported that it has been decided to have two court districts in Jones County and to erect two $60,000 court-houses, one each at Ellisville and Laurel.

MEMPHIS, TENN.—Caruthers Ewing, R. Brinkley Snowden and Russell Martin are having plans prepared for a 3-story stone apartment house, to cost $125,000. It is proposed to organize company to operate same.

MEMPHIS, TENN.—Hale & Rogers, Archs., 11 East 24th St., New York, N. Y., have let contract to JOHN PEIRCE CO., 277 Broadway, New York, for erecting the Shelby County court-house, at Memphis. Their bid was $756,193. Levi Joy is Secy. Court-House Comn.

CHATTANOOGA, TENN.—John Thompson, it is reported, is to erect an 8-story office building.

CHATTANOOGA, TENN.—The County Court will petition the Legislature in January for authority to issue $75,000 county high-school bonds.

PADUCAH, KY.—Plans are being completed for a 10-story steel structure, to be erected by the First National Bank. The building will have a spiral stairway, double elevators and 12 office rooms on each floor, and will cost $100,000.

BARBOURSVILLE, KY.—Contract for erection of a 4-story fireproof brick building, to cost $60,000, will be let at once. Steam heat and electric fixtures will be installed. C. C. Stoll is Treas., Louisville, Ky.

LOUISVILLE, KY.—Bids are asked until Jan. 8 by the Building Committee, Louisville Free Public Library, 533 Fourth Ave., for constructing library building. Thomas & Bohne, 511 Keller Bldg., are Archs.

INDIANAPOLIS, IND.—The Millard Realty Co. has leased for 99 years a site at the corner of Illinois and Washington Sts., upon which to erect an 18-story office building. C. B. Sommers, Abraham Raphael and Aaron Waldheim are Dirs.

SOUTH BEND, IND.—James Knox Taylor, Superv. Arch., Washington, D. C., announces that bids will be asked soon for construction of a new Federal building in this city. Work will begin April 1.

HIGHLAND PARK, MICH.—Stratton & Baldwin, Archs., Union Trust Bldg., Detroit, are preparing plans for a 3-story orphans' home, to be erected at Highland Park, for Rev. J. P. Dempsey, 219 John St. The building will be built of brick and stone, and will have modern plumbing, hard plaster, composition roof, electric light fixtures, etc. Estimated cost, $100,000.

FLINT, MICH.—A Masonic Temple to cost from $50,000 to $60,000 is to be erected. Judge C. H. Wisner, care of Circuit Court Chambers, is Chn. Bldg. Com.; F. D. Clarke, Supt. Michigan School for Deaf, Secy. The size of lot is 132 x 148 ft.; building is not to cover entire ground, but to set back, with grass plot surrounding. Competitive sketches from architects will be received. The building will have commandery drill room, lodge rooms, banquet hall, kitchen, clubrooms and parlors. It is to be erected of finest pressed brick obtainable.

CHICAGO, ILL.—It is reported that a veterinary college is to be founded in this city under the auspices of the University of Illinois. The packers of the city, it is stated, have offered Edmund J. James, Pres. of the University, $250,000 for the first buildings of the college.

CHICAGO, ILL.—S. N. Crowen, Arch., 85 Dearborn St., has let plumbing contract to HANLEY-CASEY CO., 35 East Ohio St., for the $100,000 Empire Theater building.

CHICAGO, ILL.—It is reported that work on the gymnasium at the St. Charles School for Boys, which will be built with the $50,000 donation from the Commercial Club of Chicago, will be commenced in the near future. The buildings are to be of the most modern construction and fully equipped with the best apparatus.

The contracts for erecting the new Chopin School, which is to cost $100,000, are reported to have been awarded by the Board of Education as follows: Masonry, A. & E. ANDERSON, 131 La Salle St., if cut-stone trimmings, $33,941, and if terra cotta, $34,141; cut stone, FURST & FANNING, 73 Hawthorne St., $11,944; terra cotta, the NORTHWESTERN TERRA COTTA CO., Clybourn and Wrightwood Aves., $14,695; composition roofing, the STANDARD ROOFING CO., $825; structural iron, JOLIET BRIDGE & IRON CO., 109 Randolph St., $24,459; iron stairs, STANDARD ARCHITECTURAL IRON WORKS, Bloomingdale and Winnebago Aves., $4,358; carpentry, VIGGO F. OLSEN, 1031 Morse Ave., $13,600; fireproofing, ILLINOIS TERRA COTTA LUMBER CO., 3320 Archer Ave., $12,995; lathing and plastering, JAMES D. CORCORAN, 112 Clark St., $8,592; steam heating, the JOHN R. KEHM CO., 226 Kinzie St., $8,625; plumbing and gasfitting, the HANLEY-CASEY CO., 35 East Ohio St., $11,840, and tile sewerage, the CHICAGO DRAINAGE CONSTRUCTION CO., 124 Quincy St., $5,777. The building will be 3-story and contain 14 classrooms.

NEW RICHMOND, WIS.—The Omaha Ry. Co. will erect a large round-house here next spring, to cost $63,000.

MILWAUKEE, WIS.—John Roth, Jr., Arch., 307 Grand Ave., is preparing plans for the Roberts Rom Co., makers of plumbers' and steamfitters' supplies, for remodeling the company's warehouse at Tenth St. and St. Paul Ave., to cost $60,000. A practically complete, new structure will be erected, using brick, concrete blocks, automatic fire doors and composition roofing.

DES MOINES, IOWA.—Plans have been prepared by Hallet & Ransom, Archs., 615 Walnut St., Des Moines, for a 4-story brick store and office building at the northeast corner of Ninth and Locust Sts., for R. Coskery and N. E. Coffin. Cost, $150,000.

ST. PAUL, MINN.—E. S. Hall, Arch., 513 La Salle St., Chicago, Ill., is preparing plans for an $80,000 theater, to be built at St. Paul.

BILLINGS, MONT.—The Masonic Temple Association is to erect a 3-story Masonic Temple on North 28th St., at a cost of about $100,000.

TOWNER, N. DAK.—Bids are asked by the Board of County Commissioners until Jan. 9, for the erection of a court-house. Hans Rothgard is County Audr. Cost, $50,000.

OMAHA, NEB.—The Rock Island Plow Co., of Rock Island, Ill., will erect a 6-story building, 90 x 120 ft., near the Tenth St. viaduct, at a cost of $75,000.

SPRINGFIELD, MO.—The St. Louis & San Francisco R. R. Co. and the Missouri Pacific Ry. System will erect a passenger station, to cost $150,000. J. F. Hinckley, St. Louis, is Ch. Engr., and A. F. Geise is Engr. Bridges and Bldgs., of the St. Louis & San Francisco R. R. Co. James W. Way is Consult. Engr.; F. B. Scheetz is Engr. Bridges and Bldgs., Missouri Pacific Ry. System, St. Louis.

TULSA, IND. T.—J. G. McGannon, of Seneca, Mo., is reported to be contemplating erection of a 6-story bank here, at a cost of about $150,000.

PAWHUSKA, OKLA.—L. P. Clifton, Arch., Tulsa, Ind. T., has plans and will ask for bids about Feb. 1 for a 4-story theater and hotel building, 100 x 140 ft., for the P. H. Theater & Hotel Co., Pawhuska. Buff brick, stone, marble and terra cotta, fireproofing, concrete floors, composition roof, skylight, hard plaster, electric light fixtures, plate-glass, bath tubs, water-closet fixtures will be used. Estimated cost, $80,000.

OKLAHOMA, OKLA.—Plans have been prepared by C. W. Bulgar, Levy Bldg., for building for the St. Luke's Methodist Church. Cost, $75,000.

Bids are asked until Jan. 7, by the Board of the Baptist Orphans' Home, for constructing building, the foundation of which has been placed. Turbyfill & Mohr, Oklahoma, are Archs.; L. H. Holt is Secy.

PUEBLO, COLO.—Francis W. Cooper, 108 Pope Block, Pueblo, is reported to be preparing plans for a high school which is to be erected at a cost of $150,000.

BROWNSVILLE, TEX.—B. F. Yoakum and associates are arranging to erect a $100,000 hotel, which will have four stories and a frontage of 250 ft.

COLLEGE STATION, TEX.—The Texas Mechanical and Agricultural College will petition the Legislature for an appropriation of $50,000 for a boys' dormitory, $75,000 for an engineering building, $40,000 for steam-heating plant and $4,000 for farm equipment. H. H. Harrington is Pres.

EL PASO, TEX.—It is reported that a Y. M. C. A. building will be erected here, at a cost of $100,000.

SEATTLE, WASH.—JOHN CORT, 217 Cherry St., is reported to have secured contract to erect an opera house, six stories high, 120 x 160 ft., at Third Ave. and Stewart St., for Jas. A. Moore, at $250,000.

THE INTERNATIONAL CONTRACTING CO., New York Block, is reported to have secured the contract for the excavation and foundation work for the 20-story building which is to be erected at Third Ave. and Columbia St. The cost of the foundation and excavation is to be about $35,000.

It is reported that the contract to erect a hotel at Terry Ave. and Marion St. has been awarded to P. O. SHANNON. Probable cost, $100,000. Edw. W. Herald and Abe Ritzwaller, owners.

SPOKANE, WASH.—We are officially advised that the Spokane & Eastern Trust Co. will erect a 3-story bank building at Howard St. and Sprague Ave. The building will cost $100,000 and will be constructed of terra cotta. The equipment for a modern bank will cost $25,000. Cutter & Malmgren, Exchange Bldg., are Archs.

SAN FRANCISCO, CAL.—We are officially advised that the estate of Irving M. Scott, has awarded contract to FRANK B. GILBRETH, 34 West 26th St., New York, N. Y., to erect the new Pacific Grand Hotel at the corner of Ellis St. and Anna Lane. Cost, about $150,000. Mr. Gilbreth also will construct another hotel from plans which have been prepared by Frank T. Shea, Arch. This hotel will be known as the "Union Square," and will occupy the site on which the Union League Club formerly stood.

SALT LAKE CITY, UTAH.—Plans have been completed for the new 7-story Railway Exchange building, 138½ x 100 ft., at Main and Third South Sts., for Mrs. Mary Judge. Cost, $300,000.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

MELROSE, MASS.—Bids are asked until noon, Jan. 14, by the Public Works Department, for furnishing the city with c.-i. pipe, ranging in size from 4 to 14 ins. W. Dabney Hunter is Engr. and Supt. Public Works. (Advertised, Engineering News.)

CORNING, N. Y.—Bids are asked until 8 p. m., Jan. 23, by the Board of Water Commissioners, for extending and improving water system in this city. W. J. Heermans is Secy.; J. F. Witmer is Engr., Buffalo. (Advertised, Engineering News.)

NEW YORK, N. Y.—DAVID & FARNHAM, of Waltham, Mass., have secured the contract for four engines for the Ridgewood pumping station for about $400,000.

It is reported that the Board of Water Supply is preparing plans for the construction of a steel pipe from Valley Stream to the Suffolk County line. John H. O'Brien is Comr. of Water Supply, Gas and Electricity.

BUFFALO, N. Y.—The City Council has awarded a contract for construction of the new water-works tunnel and intake to the lowest bidders, the BUFFALO DREDGING CO., D. S. Morgan Bldg., the amount being $1,272,763.

CAMDEN, N. J.—JOHN MILLS & CO., of Camden, have secured the contract for lowering the water pipe in Cooper's Creek at $4,500 and the CAMDEN IRON WORKS, Cooper's Creek and Line St., Camden, the contract for furnishing the material at $4,000.

BLOOMFIELD, N. J.—William L. Johnson, Town Clerk, Bloomfield, will advertise soon for about $11,000 worth of new water mains.

PHILADELPHIA, PA.—John R. Hathaway, Dir. Dept. Pub. Wks., on Dec. 27 awarded the contract for construction of preliminary filters at the Belmont filtration plant to the MAIGNEN FILTRATION CO., 52 North 13th St. The contract was originally let to the firm of D. J. McNichol & Co., and was annulled when the work was about half completed. To complete the work it will cost the city $149,200.

VICTOR CUSHWA & SONS have the contract to furnish sand, cement and pipe for the new reservoir at Philadelphia, Pa. It will take 350 carloads of iron pipe and 6,000 tons of sand. About 10½ miles of 16 and 20-in. pipe will be used.

BALTIMORE, MD.—The following bids were received by the Board of Awards on Dec. 19 for supplies for the Water Board for the year 1907: Schedule B, c.-i. work—Stuart R. Carr & Co., Montford Ave. and Essex St., $24,510; James C. Lacy & Co., Wills and Block Sts., $24,940; Baltimore Foundry Co., Bush and Severn Sts.

Schedule C, brass and gun metal castings—William Gisriel & Son, 1531 Guilford Ave., $13,102; A. P. Smith Mfg. Co., $15,810; J. Regester's Sons & Co., Holliday and Saratoga Sts., $15,970; National Supply Co., 7 West Lombard St., $16,068; Kavanagh-Ward Brass Co., Gough and Seventh Sts., $16,424.

Schedule D, lead lined w.-i. pipe and couplings—Lead Lined Iron Pipe Co., No. 1, for pipe with lead fused into iron, $7,841; No. 2, for lead expanded, but not fused into iron, $5,118.

Schedule E, service pipe connections—H. Mueller Co., $8,648; A. P. Smith Mfg. Co., $9,272.

Schedule F, service extension and valve boxes—Central Foundry Co., $4,198; W. P. Taylor Co., $4,420.

Schedule I, water meters, (a) rotary or oscillating piston, (b) inferential or velocity, (c) disc type—Hersey Mfg. Co., Boston, Mass., (a) $15,169, (b) $1,070, (c) $19,494; Union Water Meter Co., Worcester, Mass., (a) $12,009; Pittsburg Meter Co., East Pittsburg, Pa., (c) $2,894; Thomson Meter Co., 79 Washington St., Brooklyn, N. Y., (c) $3,255.

Schedule Q, c.-i. pipe and fittings—U. S. Cast Iron Pipe and Foundry Co., 80 Broadway, New York, $74,640; M. J. Drummond & Co., 182 Broadway, New York, informal.

PARSONS, W. VA.—Elk Lick Water Co., 622 Court St., Reading, Pa., has franchise to install gravity system of water-works in this city.

WRIGHTSVILLE, GA.—Arthur Pew, Atlanta, Ga., has been selected by the City Council to prepare plans for a water-works system to be installed at Wrightsville.

PINEVILLE, LA.—Specifications and bidding sheet for proposed water-works to be constructed here, as noted in issue of Dec. 20, are on file at office of Engineering News, New York. Bids are asked until Jan. 15.

CLEVELAND HEIGHTS (Cleveland post-office), OHIO.—Bids are asked by William G. Phare, Village Clerk, 204 American Trust Bldg., Cleveland, until Jan. 15, for labor and material for laying water main in Mayfield Road.

GARY, IND.—Plans are being prepared by John W. Alvord and C. B. Burdick, Hartford Bldg., Chicago, Ill., for a pumping station to be erected at Gary for the U. S. Steel Corporation. A distribution system of 25 miles of pipe is now under construction here.

GARY, IND.—Bids are asked until 11 a. m., Jan. 15, at 1207 Hartford Bldg., Chicago, Ill., for constructing water-works inlet for Gary, including a 6-ft. tunnel in clay. John W. Alvord and Charles B. Burdick, Hartford Bldg., Chicago, are Engineering News.)

PARIS, ILL.—It is [illegible] is now getting up est[illegible] cost of raising pres[illegible] Lake about two ft. W[illegible] Engr.

CHICAGO, ILL.—Bid[illegible] 5 by the Department [illegible] furnishing and deliveri[illegible] pipe-yards gate valves[illegible]

Bids for the new pu[illegible] Roseland Station and [illegible] pumping engine to be [illegible] Station were received [illegible] neil, Comr. of Public W[illegible] both cases the Allis-Ch[illegible] tional Bank Bldg., was [illegible] the amounts of the bid[illegible] $121,000 respectively.

MONTEVIDEO, MINN.—[illegible] bids will be received un[illegible] Severens, Village Clerk[illegible] motor and a steel tank[illegible]

INTERNATIONAL FA[illegible] have been prepared for [illegible] a new water-works syst[illegible] is $50,000.

MINNEAPOLIS, MINN.—[illegible] advised that the follow[illegible] ceived Dec. 21 for supplie[illegible] Cast-iron pipe, a ton, [illegible] (a) 6-in., (b) 8-in., (c) [illegible] 24-in.—R. D. Wood & Co[illegible] Philadelphia, Pa., (a) $40[illegible] $39.20, (d) $39.20, (e) $[illegible] & Sons, Franklin and [illegible] cago, Ill., all $38.65; U[illegible] and Foundry Co., the R[illegible], Chicago, all $37.10.

Special castings per [illegible] Steel and Machinery Co., [illegible] South Park Foundry and [illegible] Gilfillan Block, St. Paul, [illegible] Foundry Co., 312 Tenth Ave., South Minneapolis, $3.00.

Hydrants, with frost jacket[illegible] Works, Camden, N. J., $41.[illegible] each.

Steel pipe, per foot, (a) [illegible] (b) 20-in.—Williams Bros., Minneapolis, (a) $5.55, (b) $8.147; Carroll Porter Boiler and Tank Co., Pittsburg, Pa., (a) $4.50, (b) $3.60; James McNeil & Bro. Co., Pittsburg, Pa., (a) $5.30, (b) $3.80.

Valves, (a) 6-in., (b) 8-in., (c) 12-in., (d) 16-in., (e) 20-in., (f) 24-in., (g) 24-in., flanged—Camden Iron Works, Camden, N. J., (a) $12.50, (b) $19, (c) $35, (d) $75, (e) $155, (f) $225, (g) $235; Chapman Valve Co., Indian Orchard, Mass., (a) $12.90, (b) $20.75, (c) $41.15, (d) $83.75, (e) $160.95, (f) $213, (g) $221.35; James B. Clow & Sons, Franklin and Harrison Sts., Chicago, Ill., (a) $14.40 and $12.50, (b) $22.60 and $19, (c) $41.40 and $37.50, (d) $80 and $81, (e) $164.60 and $145, (f) $235 and $220, (g) $245 and $225. Andrew Rinker is City Engr., Ellis R. Dutton is Asst. City Engr.; L. A. Lydiard is City Clerk.

MITCHELL, NEB.—Plans, specifications and bidding sheet for diversion dam and headworks for the North Platte project, Nebraska, as advertised, are on file at office of Engineering News, New York. Bids are asked until Jan. 9.

MITCHELL, NEB.—The Secretary of the Interior has granted an extension of time to May 1, 1907, to the Burke Construction Co., of St. Louis, for the completion of its contract to construct a section of the Interstate Canal, North Platte irrigation project, Neb.-Wyo. According to the terms of the contract, the work was to have been completed Jan. 1, but the contractors found it impossible to obtain laborers, although they shipped in men at their own expense again and again. The work was further delayed by the fact that they were not able to obtain machinery promptly.

VELVA, N. DAK.—Bids probably will be asked for next summer or fall for water-works, to cost $15,000. G. N. Lindahl is Mayor.

CODY, WYO.—The Secretary of the Interior has executed a contract with JESSE W. CROSBY, JR., of Cowley, Wyo., for construction and completion of the Corbett tunnel settling basin, dam and spillway, Shoshone irrigation project, Wyo. The work is located about ten miles east of Cody and includes more than 28,000 cu. yds. excavation. Mr. Crosby's bid was $25,740.

CODY, WYO.—The Board of Consulting Engineers of the Reclamation Service, which met in Chicago, Dec. 20, to open bids for manufacture and installation of high pressure gates for the Shoshone and North Platte irrigation projects, Wyo., received but one proposal, that of the New Jersey Foundry & Machine Co., New York. The bid of this company for constructing the gates for the Shoshone reservoir was $49,196, and the gates for the Pathfinder reservoir was $78,567. The time required in which to manufacture and ship the gates was 250 days, and the time required to complete the installation of the gates, was 515 days after the signing of the contract. The papers have been forwarded to the Secretary of the Interior for action.

HUNTLEY, MONT.—The Secretary of the Interior has ordered the suspension of the contract with Piper Bros. Co., of Pueblo, Colo., for five schedules of the distributing system, Huntley irrigation project, Mont., and authorized continuance of the work by the Reclamation Service. The company abandoned its contract on Nov. 16, and turned it over to the United States. As the continuance of the work is urgent, the Government engineers took possession of the equipment, and the work will be continued.

CALIFORNIA, MO.—Bids are asked until Jan. 7 by L. L. Carter, City Clerk, for furnishing material and constructing a deep well. Burns & McDonnell are Engrs., 709 Dwight Bldg., Kansas City, Mo.

FORT WORTH, TEX.—L[illegible] DLAW-DUNN-GORDON CO., 114 Liberty [illegible] New York, N. Y., is reported to have [illegible] ured the contract for air compressor, etc., for the water-works at $12,228.

SULPHUR, ... T.—The CHICAGO BRIDGE AND ... ON WORKS, 105th and Throop Sts., Chicago, Ill., has secured the contract for an elevated steel tank at $6,190, and the AMERICAN FOUNDRY CO., of Dallas, Tex., has secured the contract for c.-i. water pipe. The ... ed the contract for c.-i. sewer pipe are ... to be purchased. George C. Boland is Sec. ... Water-Works.

SEATTLE, W... H.—The City Council has passed ordinances providing for laying a water main on ... at 41st St., at a cost of $7,750. R. H. ... nson is City Engr.

SANTA CLA... CAL.—We are officially advised that ... DES MOINES BRIDGE AND IRON CO. ... Des Moines, Ia., on Dec. 15, secured ... ract, at $5,897, for constructing a 100,000-gallon tank. The town will soon advertise ... for a 200,000-gallon tank and tower. C. ... Moore is Engr.

SAN FRANCISCO, CAL.—Thomas P. Woodward, City Engr., has been instructed to prepare plans and specifications for a high pressure salt water fire protection system to cost $2,000,000, to be obtained from a bond issue to be voted for.

The Northern California Power Co. has let the contracts for installing centrifugal pumps and electric motors for the water system which is to be constructed as soon as machinery can be placed on the ground. G. W. PRICE & CO., of San Francisco, will supply the pumps, which will have a capacity of 1,800,000 gallons each a day. Each pump will be direct connected to a 150-HP. motor. E. V. D. Johnson, Redding, Cal., is Mgr.

ATHOL, IDAHO.—The residents of Athol are stated to have decided to construct water-works and have subscribed $4,000 toward the fund. About $12,000 will be expended for the system.

DANVILLE, QUE.—HENRI GIRARD has secured the contract to put in the water-works system for this town. Work will be commenced during the next few weeks.

HULL, QUE.—The bid of A. E. BISSON for the intake pipe extension and other improvements in connection with the water-works has been accepted at about $14,000.

PEMBROKE, ONT.—Bids are asked until Jan. 5 for supplying steel pipe for intake, well lining and connections with pumps and all specials and valves being all steel and iron-work. The 18-in. intake will be 7,000 ft. long, and the well 7½ ft. in diameter. James P. Sarsfield is Chn. Water Works; J. L. Morris, Pembroke, is Engr.

FORT WILLIAM, ONT.—We are officially advised that the bids received Dec. 22 will not be decided upon until Jan. 9.

WINNIPEG, MAN.—Bids are asked until 2 p. m., Jan. 14, by the Chairman of the Fire, Water and Light Committee, for supplying two 250-HP. water tube steam boilers for the city water-works. C. J. Brown is City Clerk; H. N. Ruttan is City Engr. (Advertised, Engineering News.)

Specifications and bidding sheet for supplying c.-i. water pipe and special castings to the Fire, Water and Light Department, as advertised, are on file at the office of Engineering News, New York. Bids are asked until Mar. 1.

MEDICINE HAT, ALTA.—J. D. McGregor will commence work immediately in connection with his irrigation plan.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

NEW YORK, N. Y.—Bids are asked until 11 a. m., Jan. 10, by Louis F. Haffen, Pres. Boro. of The Bronx, for constructing sewers in Vireo Ave., East 179th St. and Mosholu Parkway North.

YONKERS, N. Y.—Henry A. Van Alstyne, State Engr., Albany, and Eugene H. Porter, 181 West 73d St., New York, State Comr. of Health, have approved the plans for the Bronx sewer, which is to run through the Bronx Valley from North White Plains and empty into the Hudson River at Yonkers. The sewer will cost $2,000,000.

MOUNT OLIVER (Pittsburg post-office), PA.—We are officially advised that this town is considering construction of sewer system. Harry H. Rankin, First National Bank, Pittsburg, is interested.

ANNAPOLIS, MD.—The contract for furnishing and laying 6,000 ft. sewers has been awarded to CHARLES A. HOWARD, of Annapolis, at about $4,000. James F. Strange is Chn. St. Com.

ROANOKE, VA.—W. B. Bates, City Engr., it is reported, has completed plans for a sewer system in what is known as the Jeanette addition and the Gish farm.

McMECHEN, W. VA.—Town has voted to issue $30,000 of bonds for constructing sewer system.

ORANGEBURG, S. C.—Bids are asked by the Board of Sewerage Commissioners until Jan. 23, for construction of a system of sewers. Edward Hawkes, Jr., is City Engr.

GAINESVILLE, FLA.—We are officially advised that contract for erecting septic tanks for sewerage disposal plant for the city of Gainesville has been let to JOHN H. McKENZIE & SONS, Augusta, Ga. W. W. Hampton is Secy.

NEWPORT, KY.—Contract for constructing sewers has been awarded to JOHN B. McLANE & CO., by J. B. Morlidge and Albert T. Root, Engrs., of this city. Peter J. Krebs is City Clerk.

LOUISVILLE, KY.—The Board of Public Works has awarded contract to L. R. FIGG to construct sewer in Eighth St., between Oak and Oldham Sts. All bids were rejected on sewer in Tenth and Oak Sts., owing to the necessity for changing the plans. Bids will be asked for later. Estimated cost $6,000. J. P. Claybrook is City Engr.

SHELBYVILLE, KY.—The City Council has under consideration the question of installing a sewer system in this city, and desires that plans and estimates be submitted by engineers.

STEUBENVILLE, OHIO.—Bids are asked until Jan. 4 by the Board of Public Service for constructing a sewer in a portion of Washington St. W. G. Vance is Clerk.

EATON, OHIO.—L. Reid, City Engr., is reported to be preparing plans for a sewer system. An election probably will be held in spring to vote on issuing bonds for same.

ELYRIA, OHIO.—The City Council has passed resolutions for construction of about five miles of sewers next spring. It is hoped to let the contracts by February.

CHILLICOTHE, OHIO.—Contract for constructing the Mill and Church Sts. storm sewers has been let to JARDINE, BREWER & TOMLINSON, of this city, at $4,880. H. M. Redd is City Engr.

INDIANAPOLIS, IND.—Plans have been ordered for construction of 7,500 ft. of large sewer in Schurman Ave. Estimated cost, $50,000. It will be 6 ft. in diameter, of concrete or brick construction. Blaine Miller is City Engr.

GREENFIELD, IND.—Bids are asked by Oliver H. Monger, Drainage Comr., until 2 p. m. Jan. 26, for construction of the Gale Ditch, consisting of 1,000 ft. of 10-in. tile; 1,165 ft. 12-in. tile; 2,670 ft. of 14-in. drain tile; one cement protecting wall at end of tile.

NEW ALBANY, IND.—Bids are asked until 10 a. m., Jan. 9, by the Board of Public Works, for constructing sewer in Culbertson Ave. John C. Short is City Clerk.

EAST ST. LOUIS, ILL.—Bids are asked until noon, Jan. 8, by the Board of Local Improvements for constructing sewers in Thirteenth St. Silas Cook is Pres.; E. Eggmann is Clerk, Board Local Impvts.

MOUNT CARMEL, ILL.—Bids are asked abount Jan. 15 for the construction of a sanitary sewerage system. Plans, etc., have been completed. Cost, $60,000. Daniel Siebert is City Clerk; S. Spiker, City Engr.

DANVERS, ILL.—The construction of an 18-in. vitrified pipe sewer is proposed for this place. C. K. Stuckey is Chn. of the Com.

DE LAND, ILL.—We are officially advised that H. S. WALTERS Cisco, Ill., has contract to construct drainage system, involving the use of about 20,000 ft. of drain pipe, for which bids were received Dec. 22. Contract price, $11,419. W. J. Day is Engr.

WEBSTER CITY, IA.—Bids are asked by O. A. Cragwick, Audr. Hamilton County, until Jan. 16, for construction of six drainage ditches, one ditch will be eight miles long, 159,195 cu. yds.; one 5¼ miles, 88,912 cu. yds., and half-mile 20 to 22 ins. drain tile. There will also be four other smaller ditches.

ST. PAUL, MINN.—The Board of Public Works let contract to JOHN LIND, 34 East Second St., at $3,700, for the construction of a sewer on Watson Ave., from Victoria to Chatsworth Sts., together with the necessary catch basins and manholes. John S. Grode is Pres.; R. L. Gorman is Clerk.

HORTON, KAN.—T. W. ROBERTS, of Independence, Mo., has secured the contract for constructing sewers in District No. 1 at the following bid: 650 ft. 24-in. pipe, $2.40; 1,195 ft. 15-in. pipe, 85 cts.; 2,400 ft. 12-in. pipe, 73 cts.; 832 ft. 10-in. pipe, 67 cts.; 15 manholes, each, $33; total, $5,380. Bids were received Dec. 18.

FALLS CITY, NEB.—Plans have been prepared by Alexander M. Munn, C. E., Nebraska City, Neb., for a drainage district for drainage District No. 1, embracing 31,000 acres and to cost about $277,600. A. R. Keim, Falls City, is Attorney for the District.

SIOUX FALLS, S. DAK.—The Council Sewer Committee has recommended extension of Phillips Ave. sewer at an approximate cost of $30,000.

CAPE GIRARDEAU, MO.—Specifications and bidding sheet for construction of sewer system for Sewer District No. 1, as advertised, are on file at the office of Engineering News, New York. Bids are asked until Feb. 4.

ARGENTA, ARK.—Bids are asked until Jan. 10 by the Board of Public Affairs for constructing a sewer system. W. C. Faucette is Pres.

GOLDEN, COLO.—Plans have been prepared for a complete sewer system for this city, and it is probable that action will be taken soon by the City Council toward beginning the work.

LAMAR, COLO.—C. R. Beardsley, Town Engr., is reported to be preparing plans for about 13 miles of pipe sewers, probably of 8 to 21 in. in diameter.

SEATTLE, WASH.—The following ordinances have been passed by the City Council, Seattle, ordering sewer improvements: Thirtieth Ave., estimated cost, $6,000; 24th Ave., $6,800; Seventh Ave., N. E., $5,150. R. H. Thomson is City Engr.

SELLWOOD (Portland post-office), ORE.—A resolution is to be introduced in City Council asking City Engr. to prepare plans and estimates for a comprehensive system of sewers for this place.

SAN DIEGO, CAL.—OLAF NELSON was awarded contract for construction of sewers on First, Second and Third Sts., between Walnut and Palm Sts., at the meeting of the Board of Public Works, held Dec. 17. His bid for the work was $3,579, and was the lowest bid submitted. Other bids were: Stanley Construction Co., $3,879, and H. S. MacDonald, $3,649.

TWIN FALLS, IDAHO.—BARDSEN & CO. of Butte have been awarded the contract for putting in the sewer system and expect to begin the work in January.

GARBAGE DISPOSAL.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—Plans have been completed for construction of a garbage plant at Ft. Hill Wharf on Atlantic Ave., which call for a 3-story building and installation of machinery, which will cost about $150,000. It is proposed to dispose of all city refuse, and especially the dry refuse. The New England Sanitary Product Co., 8 Beacon St., and the City Refuse Utilization Co., 462 Atlantic Ave., are interested. The plans are reported to have been prepared by Arthur N Pierson, 1 Park Row, New York, N. Y.

NEWPORT, R. I.—The Committee on Streets and Highways has awarded contract for the collection of city garbage for five years from Jan. 1, to JAMES J DUGAN, at $25,620.

ROCHESTER, N. Y.—The Board of Contract has awarded contract to TITMAN & COOPER, of Philadelphia, for a garbage disposal plant to be erected outside the city. This firm was awarded contract for collection of garbage for period of five years from November 26.

NEW YORK, N. Y.—We are officially advised that the following bids were received Dec. 27, by George Cromwell, Pres. Boro. of Richmond, for constructing foundations, building, runway, connecting flues and chimney for refuse destructor to be built at West New Brighton: Universal Destructor Co., 17 State St., $22,535; Heenan & Froude, Ltd., 111 Broadway, $23,195; De Carle Mfg. Co., 23 South Second St., Minneapolis, Minn. (a) $18,600, (b) $25,700, (c) $32,000. J. T. Fetherston is Supt. Street Cleaning.

MONTCLAIR, N. J.—The Town Council on Dec. 10 awarded to ALWORTH & SON, of the Fourth Ward, Montclair, the contract to dispose of the ashes and garbage at $15,650.

JERSEY CITY, N. J.—On Dec. 17 the Street and Water Board awarded to JAMES PADOVANO, of Hoboken, the contract for the removal of garbage and ashes for the fiscal year beginning this month at $39,975.

ALLEGHENY, PA.—On Dec. 21 the ALLEGHENY GARBAGE CO. was awarded the contract for the collection of garbage from Jan. 1, four years. The bid was $2.95 a ton. Samuel J Grenet is Dir. Dept. Pub Works.

PHILADELPHIA, PA.—H. E. Baton, 1221 Arch St., has secured the contract for rebuilding the garbage reduction plant at 49th St. and Schuylkill Ave. for the Penn Reduction Co. The building will be brick and steel with one and two stories.

John R. Hathaway, Dir. Dept. Pub. Wks., has awarded contracts as follows for cleaning streets during the year 1907:

First District, that section of the city south of Washington Ave., between the Delaware and Schuylkill Rivers. E. H. VARE, $60,000.

Second District, bounded by Washington Ave., South St. and the two rivers. E. H. VARE, $50,000.

Third District, bounded by South and Vine Sts. and the two rivers. E. H. VARE, $91,999.

Fourth District, bounded by Vine and Poplar Sts. and the two rivers. PEOPLES BROS., 2510 Callowhill St., $79,990.

Fifth District, bounded by Poplar St., Lehigh Ave., and Front and Broad Sts. LAUGHLIN & CO., $99,474.

Sixth District, bounded by Poplar St., Lehigh Ave., Front St. and the Delaware River. JAMES CURRAN, $48,800.

Seventh District, bounded by Lehigh Ave., the County Line, Broad St. and the Delaware River. JAMES CURRAN, $87,500.

Eighth District, bounded by Poplar St., Lehigh Ave., Broad St. and the Schuylkill River. E. H. VARE, $123,899.

Ninth District, bounded by Lehigh Ave., County Line, Broad St. and the Schuylkill River. DAVID McMAHON, $73,800.

Tenth District, bounded by Market St., the County Line, northwest, and the Schuylkill River. JOHNSON & CO., 4551 Lancaster St., $71,470.

Eleventh District, south of Market St., County Line and between rivers. JOHNSON & CO., $47,390.

ASHEVILLE, N. C.—The city has voted affirmatively a $10,000 bond issue for the erection of a garbage crematory. A. S. Barnard is mayor.

PENSACOLA, FLA.—Bids are asked until 11 a. m., Jan. 26, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for constructing garbage crematory at the Navy Yard, Pensacola. Specifications and bidding sheet are on file at office of Engineering News, New York. Mordecai T. Endicott is Ch. of Bureau, Washington.

YOUNGSTOWN, OHIO.—It is reported that the City Council has decided to ask for bids for the garbage collection contract, to be received in about three weeks. No bids were received for this work on Dec. 17.

LAKEWOOD (Cleveland post-office), O.—Bids are asked until Jan. 4 by B. M. Cook, Clk. Board of Health, for furnishing material and collecting garbage and dead animals for a period of one year commencing Feb. 1, 1907.

ZANESVILLE, OHIO.—It is reported that the Board of Public Service has been authorized to ask for bids for the construction of a garbage crematory and stables, and will do so when site is selected. E. C. Smith is City Engr.; Neil Starkey is City Clk.

COLUMBUS, OHIO.—The Board of Public Service is reported to have accepted specifications for the disposal of garbage. The proposed plant will have a capacity of 200 tons with provision for an ultimate capacity of 250 tons. Henry Maetzel is Ch. Engr.

DES MOINES, IA.—The contract for erecting garbage crematory at Fort Des Moines (bids opened Nov. 14) has been awarded to the DIXON GARBAGE CREMATORY CO., of Toledo, Ohio, at about $6,815. CHARLES WEITZ SONS, of Des Moines, secured the contract for erecting the crematory building. Capt. W. E. Cole is Q. M.

ST. LOUIS, MO.—Bids are asked until Jan. 25, by the Board of Public Improvements, for disposing of garbage for a certain period. Andrew J. O'Reilly is Pres. Bd. Pub. Impvts.

Bids are asked until Jan. 11 by the Board of Public Improvements for sprinkling the streets and public places within Districts 1 to 64 inclusive, for a period of one year from Feb. 1, 1907. A separate bid must be submitted for each district.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

NEW YORK, N. Y.—Bids are asked until 11 a. m., Jan. 10, by Louis F. Haffen, Pres. Boro. of the Bronx, for regulating grading, etc., in Bainbridge Ave., from Mosholu Parkway North, to Woodlawn Road.

Bids are asked until 3 p. m., Jan. 9, by Louis F. Haffen, for paving with asphalt and regulating and paving various streets in the Boro. of the Bronx.

A contract for building the municipal asphalt plant, at Brooklyn, has been awarded to the WARREN ASPHALT CO., at $22,485.

AUBURN, N. Y.—Bids are asked until 8 p. m., Jan. 15, for paving with asphalt about 23,700 sq. yds.; with brick, in car tracks, 3,300 sq. yds., with stone block, 1,700 sq. yds. About 12,000 lin. ft. curbing, 20 catch basins and 100,000 sq. ft. relaid sidewalk will be needed. J. W. Ackerman is City Engr.; E. J. Paige is Asst City Engr.; J. S. Hanlon is City Clk.

BUFFALO, N. Y.—The following are reported to be the lowest bids opened Dec. 21 for repaving portions of (a) Main, (b) Seneca and (c) Morgan Sts.; Barber Asphalt Co. (a) $7,648; H. P. Burgard Co. (b) $6,650, and German Rock Asphalt & Cement Co. (c) $5,910.

CATSKILL, N. Y.—The Board of Supervisors of Greene County is reported to have voted to construct State roads in Greene County. The first section is to be the Susquehanna Turnpike, between Catskill and Cairo.

ERIE, PA.—Bids are asked until Jan. 7 by Joseph W Hunter, State Highway Comr., Harrisburg, for constructing 17,677 ft. road in Millcreek Township.

HARRISBURG, PA.—The contracts for paving with asphalt portions of Sixth and Vernon Sts. and alley between Chestnut and Blackberry Sts. are reported to have been awarded to BARBER ASPHALT PAVING CO. at $44,877.

BRISTOL, PA.—Bids were received Dec. 21 by the State Highway Dept., at Harrisburg, for the reconstruction of a section of road, 18,065 ft. in length and 16 ft. wide in Bristol, as follows: James L Frazer, $38,323 and $37,300; McCormick & Co., $34,631; J. R. Shanley, Jr., $28,180; William C. Evans, $34,077 and $33,327, and S. Harper Dean, $34,359.

SMETHPORT, PA.—Bids are asked until Jan. 10 by Joseph W Hunter, State Highway Comr., Harrisburg, for constructing 26,400 ft. road in Foster Township; also 10,900 ft. road in Bradford Township, both in McKean County.

NEW ORLEANS, LA.—Bids are asked until 1 p. m., Jan. 7, by the Street and Landings Committee for paving Prytania St. with bithulithic and laying subsurface drains, and paving with asphalt Garfield St., and Joseph St. with small granite block and subsurface drains.

LAKE CHARLES, LA.—Bids are asked until 7.30 p. m., Jan. 9, for paving a section of Pujo St., Lake Charles.

YOUNGSTOWN, OHIO.—An ordinance has been passed authorizing an issue of $508,000 South Watt St. improvement bonds. Pyatt W. Hubles is City Clk.

BELLEFONTAINE, OHIO. — Resolutions to pave North Detroit St. have passed Council. The specifications include stone and cement curbing. Bids will be opened about March 1. J. D. McLaughlin is Chm. Paving Com.

MOUNT VERNON, OHIO.—The resolution to pave Spice Alley has passed its third reading. The estimate on the cost of paving Gambier St. is $35,500, and of paving East Burgess St. $13,426.

LOGANSPORT, IND.—John M. Johnston, Postmaster, has received notice from Washington ordering him to advertise for bids for paving the sidewalk in the rear of the Federal Building in Erie Ave.

HAMMOND, IND.—It is reported that the City Council is preparing to lay cement walks in many streets. John L. Rohde is Pres. Bd. of Public Works.

SPENCER, IND.—Bids are asked until Jan. 8 by the Board of County Commissioners for constructing a gravel pike in Morgan Township, to be 2¾ miles long. G. O. Miller is County Aud.

CHAMPAIGN, ILL.—Estimates are being prepared for paving to the amount of $200,000. G. C. Fando is City Engr.

KANSAS CITY, MO.—Bids are asked until Jan. 3, by the Board of Public Works, for constructing asphalt and brick pavements on portions of numerous streets; also for repairing asphalt and stone block pavements.

ST. JOSEPH, MO.—The Board of Public Works has ordered plans and specifications prepared for artificial stone sidewalks, to be constructed in several streets.

OKLAHOMA, OKLA.—The bids for paving several new districts in the city were opened and read before the City Council on Dec. 17, and the bids being deemed too high, were rejected, with a suggestion to the city engineer that the latter get in communication with some new paving companies.

BARTLESVILLE, IND. T.—Bids are asked until Jan. 29, by the City of Bartlesville, for constructing about 16,000 sq. yds. vitrified brick paving. W. H. Whaley is City Engr.; William T. Sidell is Mayor.

SANTA FE, N. MEX.—The Council has directed the City Engr. to advertise for bids for improving certain streets with cement walks. A. P. Hill is City Clk.

SEGUIN, TEX.—The Guadaloupe County Board is reported to have decided to issue $50,000 bonds for improving roads.

DALLAS, TEX.—Bids are asked until Jan. 5, 1907, for the construction of the Grand Prairie and Cedar Hill Roads by George L. Fearn, County Audr. Plans and specifications for this work are on file in the county engineer's office. All bids are to be made on blanks furnished by the county, and in strict accordance with the specifications. Each proposal must be accompanied by a certified check in the sum of 5 per cent. of the contract price. The right is reserved to reject any and all bids. J. W. Maxey is Ch. Engr.

TACOMA, WASH.—The contract for grading a portion of South N St. is reported to have been awarded to F. A. KEASAL, 1004 North O St., at $13,100.

The Commissioners of Public Works are stated to have opened bids as follows for grading a portion of South F St.: Geo. D. Mattison, $6,175; Thomson & Langford, $6,170; P. E. McHugh, $6,845; Wells & Maxham, $6,850.

COLUMBIA CITY, WASH.—At a meeting of the Council recently an ordinance was passed for the grading of three blocks of Milton Noble St., from Hudson to K, and the opening of West Park Drive.

SEATTLE, WASH.—The City Council has passed ordinances ordering grading and concrete walks on the following streets: 24th Ave. So., $3,700; 14th Ave., Northeast, $25,300; North 41st St., $5,400; Virginia St., $14,500; McGraw St., etc., $14,000; Lee St., etc., $7,200; Franklin Ave., etc., $3,900; East Roy St., etc., $4,090; Howard Ave. North, $4,120.

ONTARIO, CAL.—It is stated that bonds to the amount of $35,000 have been voted for street improvements.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

WORCESTER, MASS.—J. E. Snyder & Sons, 100 Hermon St., will erect a new shop at Parker and Dewey Sts. It is to be a 1-story concrete building, 90 × 170 ft.

NEW YORK, N. Y.—Bids are asked until 11 a. m., Jan. 10, by John V. Coggey, Comr. Dept. of Correction, for erecting an annex to workshops at the New York Penitentiary, Blackwell's Island.

SCHENECTADY, N. Y.—The General Electric Co. will make extensive additions to its plant here. An addition, 800 × 150 ft., will be made to the turbine construction department.

SYRACUSE, N. Y.—An addition, 62 × 248 ft., will be erected by the Elgin A. Simonds Co., 224 West Onondaga St. Estimated cost, $90,000. Gaggin & Gaggin, 926 University Bldg., are the Archs.

MILTON, PA.—The American Car & Foundry Co. will soon have plans started for the erection of a large foundry at this place. It is to be a 1-story, brick and steel building.

PHILADELPHIA, PA.—Bids are asked by George I. Lavatt, Arch., 420 Walnut St., for the erection of a 2-story brick factory building, 420 × 90 ft., for the Hollow Brick Co. It is to be erected at 87th and Eastwick Ave.

Plans are being prepared by Wm. Steel & Sons, 1600 Arch St., for an addition to the factory of Drueding Bros., at Fifth and Master Sts. It is to be a 6-story, brick and reinforced concrete building.

BALTIMORE, MD.—George Clothier, Jr., Arch., Hoffman Bldg., 11 East Lexington St., has prepared plans and specifications for factory building to be erected on Ridgely St., near Bayard St. It is to be a 1-story, 128 × 130-ft., steel frame and corrugated-iron building. Estimated cost, about $5,000.

BUELL, VA.—The United States Wood Preserving Co. is arranging for the establishment of plant at Buell. It is stated that the company will utilize ten acres of land, erecting a plant costing $500,000. The capital stock of the company is now $400,000, but, as it is anticipated enlarging the capacity of the plant, the capital stock will be increased.

HAMPTON, VA.—The Phoebus Ice & Coal Co. will erect a factory building for an ice plant. H. R. Booker is Pres. of the company.

NORFOLK, VA.—The Consumers' Brewing Co. is considering making extensive additions, and will issue $100,000 of bonds.

PETERSBURG, VA.—The American Tobacco Co. has purchased site, 217 × 100 ft., on which to erect proposed cigar factory.

HILLSBORO, N. C.—The Hillsboro Clay Mfg. Co. has been incorporated with $100,000 authorized capital stock by P. C. Collins, A. J. Ruffin, T. N. Webb, N. W. Brown, J. Cheshire Webb and S. Strudwick, to manufacture brick, drain and sewer pipe.

CHARLESTON, S. C.—Standard Portland Cement Co. has increased capital stock from $125,000 to $150,000. Arrangements are being made to double the output of the plant, giving a daily capacity of about 1,500 barrels.

MONROE, GA.—The Walton Cotton Mill Co. is to double its present plant, which operates 5,000 spindles and 156 looms.

BIRMINGHAM, ALA.—It is reported that the Illinois Central Railroad Co. will arrange for the erection of repair shop and enginehouse. A. S. Baldwin, Chicago, Ill., is Ch. Engr.

CHATTANOOGA, TENN.—It is reported that the Illinois Iron & Bolt Co., of Carpentersville, Ill., has purchased 40 acres of land near East Lake and will expend $400,000 in the establishment of plant.

BLOOMINGTON, IND.—The Bloomington Ice & Fuel Co. has ordered plans for the erection of a $20,000 ice plant.

HAZLETON, IND.—The Hazleton Canning Co. is planning to build a large canning factory here. Bids will be asked in February.

MUNCIE, IND.—The Central Indiana Railway Co. is preparing to construct extensive shops in this city.

PEORIA, ILL.—Thirty or more buildings, from 150 × 50 ft. to 200 × 500 ft., will be erected by the Corn Product Refining Co., 26 Broadway, New York, N. Y. Estimated cost, $3,000,000. G. C. Chamberlain, 217 La Salle St., Chicago, is Des. Engr.

MILWAUKEE, WIS.—The Stowell Mfg. & Foundry Co., South Milwaukee, has increased its capital from $200,000 to $300,000 and will build a new factory, 300 × 80 ft. Plans will be secured early next year.

DUBUQUE, IOWA.—Plans are being prepared by Thomas J. Carkeek, Arch., 17 Lincoln St., Dubuque, for the erection of a 5-story candy factory, 64 × 114 ft., for William Lawther & Co.

MAGAZINE, ARK.—It is proposed to establish canning factory, to cost $4,100, and a company will be organized to operate same. N. H. Burnett is interested.

BELLINGHAM, WASH.—Balfour, Gutherie & Co. plan the erection of a cement plant to cost more than $600,000, on their holdings at Kendale. The plant will have a daily capacity of 2,000 barrels, as now planned.

SEATTLE, WASH.—A five-story building, to cost from $100,000 to $150,000, will be added to the Seattle Ice plant owned by the Seattle Ice Co. Frank W. Morgan, of Seattle, is secy.

NORTH BEND, ORE.—J. W. Duncan is having plans drawn for a furniture factory, 2 stories and basement, to be erected at a cost of $10,000.

PORTLAND, ORE.—The Acme Mills Co. will erect a new mill, 4 stories high, brick, at a cost of $15,000.

LOS ANGELES, CAL.—The Pioneer Roll Paper Co. has purchased a site for a large 2-story reinforced concrete mill for the manufacture of building papers and roofing materials. Four warehouses of brick and steel are also to be built. The estimated cost is $25,000.

PORT ARTHUR, ONT.—The contract for the Miesel Manufacturing Plant has been awarded to SHEPPARD & WHITE, of Port Arthur. Estimated cost, $100,000. Plans were prepared by Archibald Matthews, Merchants Bank Bldg., Winnipeg, Man.

STRATFORD, ONT.—The Grand Trunk Ry. System has decided to improve its shops and terminals here at a cost of $250,000. Work will be commenced at once.

HULL, QUE.—The City Council has granted fifty years exemption from municipal taxes on $100,000 to the Canada Refining Co. to establish its factory in Hull. The company will erect buildings costing $750,000.

LONGUE POINTE, QUE.—Extensions to the plant of the American Locomotive & Machine Co., at Longue Pointe, Que., will cost $75,000.

MONCTON, N. B.—The contract for the locomotive shops at Moncton for the Intercolonial Ry. Co. has been awarded to E. A. WALLBERG, Montreal, Que., at a price of about $500,000. They will be built entirely of concrete and steel. This is the last group of the shop system to be built here. All the others are being built by the same contractor.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

TRAVELING CRANE.—West Point, N. Y.—Bids are asked until noon, Jan. 24, for constructing a traveling crane. (Advertised, Engineering News.)

DOCK.—Michigan City, Ind.—Bids are asked by the Board of Public Works until Jan. 7 for the construction of 1,000 ft. of dock. H. M. Miles is City Engr.

TILE DITCH.—Bridgeport, Ind.—Bids are asked until Jan. 8 by Paul P. Blank, Supt. Construction, Bridgeport, Ind., R. F. D. No. 1, for constructing a tile ditch.

SEA WALL.—Fort Screven, Ga.—Contract for constructing reinforced concrete sea wall at Fort Screven has been awarded to GEO. M. GADSDEN, of Savannah Ga. Cost, $50,000. Joseph T. Davidson, Q. M.

DITCH.—Breckenridge, Minn.—Bids are asked until Jan. 9 by the Board County Commissioners for constructing Ditch No. 5, requiring the excavation of 32,822 cu. yds.; estimated cost, $4,188. R. P. Glover is County Audr.

DREDGING.—Mt. Pulaski, Ill.—Contract for dredging or cleaning out Lake Fork, 16 4-5 miles, has been let to J. W. BIRKS and G. E. KICK, of Latham, Ill., at 7.9 cts. a cu. yd. The approximate quantity of earth to be removed is 749,385 cu. yds.

ORDNANCE.—Washington, D. C.—Bids were opened Dec. 27, at the Bureau of Ordnance, War Dept., Washington, D. C., for one tube forging gun-steel for 6-in. rifle. Bids were as follows: Midvale Steel Co., 21 cts. per lb., time 85 days; Bethlehem Steel Co., 21 cts. per lb., 75 days.

BULKHEAD.—Venice, Cal.—The Board of Trustees has awarded contract for about 1,800 ft. of bulkheading along the beach south of Venice to the ALSOP CONSTRUCTION CO., at about $26,000. This figure includes the cost of diverting wings to prevent encroachment by high tides.

TELEPHONE LINES.—Winnipeg, Man.—Authority has been granted to the Department of Public Works to call for bids at once for the supply of sufficient material for the construction of 1,000 miles of telephone lines, which will be built and operated by the provincial government before the close of 1907. Hon. Robert Rogers is Minister of Public Works, Winnipeg, Man.

DRAINAGE.—De Land, Ill.—Bids were received by the Drainage Commissioners of Goose Creek District, No. 1, De Land, on Dec. 22, for constructing a drainage system, involving the use of about 20,000 ft. of various-sized drain tile. J. B. Rhinehart, Town Clk., De Land. W. J. Day, Engr.-in-Charge, Bement, Ill. Contract was let to H. S. WALTER, Cisco, Ill., at $11,418.

DITCHES.—Prophetstown, Ill.—Bids were received on Dec. 8 by the Commissioners of the Union Special Drainage Dist. of Henry and Whiteside Counties, at the office of F. W. Sears, Engr., Prophetstown, for the enlargement of the lateral ditches or tributaries in this drainage district, requiring the removal of 139,380 cu. yds. material. Contract was let to WM. McNEILL, of Prophetstown, at 15 cts. a cu. yd.

CABLE CARS, ENGINES.—Washington, D. C.—Bids are asked until 10 a. m., Jan. 22, by the Bureau of Supplies and Accounts, Navy Dept., for furnishing at the navy yard, New York, N. Y., and the naval coal depot, Bradford, R. I., as specified, a quantity of naval supplies, as follows: 25 self-dumping steel cable cars, 2 hoisting engines. Applications for proposals should refer to Schedule 327. E. B. Rogers, Paymaster-Gen., U. S. N.

RECLAIMING MARSH LANDS.—Old Town, Fla.—It is reported that John M. Wright, of Fernandina, owning extensive marsh lands in this vicinity, with Cassius M. Gillette, Engr., Fernandina, Fla., will perfect plans for reclaiming these lands, constructing dyke about 1,200 ft. long and a roadway at the foot of the marsh from Old Town across to the Fort Clinch reservation. The property contains 630 acres of marsh land and 325 acres of high land.

CANAL.—Quincy, Ill.—Web. P. Bushnell, Ch. Engr., Sny Island Levee Drainage Dist., states that A. V. WILLS & SONS, of Pittsfield, Ill., has secured the contract for work to be done in the Bay Creek Sub District, at 7.95 cts. per cu. yd. The work consists of constructing a canal about six miles in length, requiring the excavation of about 300,000 cu. yds. of alluvial soil. Work is nearly solid, and will be dredged. Bids were received on Dec. 20.

NAVAL SUPPLIES.—San Francisco, Cal.—Bids are asked by the Bureau of Supplies and Accounts, Navy Dept., Washington, D. C., until Feb. 5, to furnish at the navy yard, Mare Island, Cal., a quantity of machine tools, etc., as follows: Schedule 325—Jib crane. Schedule 326—Water-tube boilers for the U. S. collier "Prometheus," lathes, drill press. Applications for proposals should designate the schedules desired by number. E. B. Rogers, Paymaster-Gen., U. S. N.

STEEL GRANDSTAND.—Columbus, Ohio.—Bids were received on Dec. 20 by the State Board of Agriculture for erecting a steel grandstand on the State Fair grounds. Contracts were awarded as follows: Excavating and concrete work, CONCRETE STEEL CO., Cincinnati, Ohio, at $24,962; structural steel, CAPITOL CONSTRUCTION CO., Columbus, at $12,554; carpenter work and slate, tin and galv. iron work, D. W. McGRATH, Columbus, at $7,186. T. L. Calvert, Secy. State Board.

CHIMNEY.—Helena, Mont.—The Boston & Montana, a constituent of the Amalgamated Copper Co., has awarded a contract to ALPHONS CUSTODIS, 95 Nassau St., New York, for building a chimney which will not only be the tallest of its kind in the world, but will be excelled in height only by the Washington Monument and the Eiffel Tower, according to the New York "Tribune." It will have a height of 506 ft. About 5,000,000 brick will be used in its construction. The cost will be $200,000.

SUBWAY.—Jacksonville, Fla.—The Board of Public Works has approved plans submitted by J. W. Richardson, Engr. of the Jacksonville Terminal Co., for proposed Myrtle Ave. subway, and bids for the construction work will be advertised at once to be opened Jan. 15. The plans call for a subway constructed of concrete and asphalt mastic, perfectly water-tight; the floor or driveway of the subway to be slightly below the level of high tide. The total length of subway and approaches will be 500 ft.; the covered portion, that is, the portion that will pass under the railroad tracks, 162 ft. Total width, 53 ft. and 4 ins., to be divided into two driveways, each 15 ft. wide and 11 ft. high; two sidewalks for foot passengers, each 4 ft. and 8 ins.; through the center space for electric cars, 12 ft. wide and 13 ft. high.

CRANES.—Portsmouth, N. H.—Bids were received on Dec. 22, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for four electric traveling cranes for the Portsmouth Navy Yard. Mordecai T. Endicott, Ch. Bureau. Bids were as follows: The Case Mfg. Co., Curtis Ave., Columbus, Ohio, two 3-motor 15-ton cranes, $3,825 each; one 4-motor 40-ton crane, $8,825; one 4-motor 25-ton crane, $5,850. Pawling & Harnischfeger, 38th St. and National Ave., Milwaukee, Wis., one 40-ton crane, $8,300; one 25-ton crane, $5,100; two 15-ton cranes, $6,700; or all four cranes, $20,000. Cleveland Crane & Car Co., Wickliffe, Ohio, 40-ton 4-motor crane, $8,410; 25-ton 4-motor crane, $6,825; two 15-ton 3-motor cranes, $6,290. Northern Engineering Works, 2 Chene St., Detroit, Mich., two 15-ton 3-motor cranes, $8,180 for both; one 25-ton 4-motor crane, $6,915; one 40-ton 4-motor crane, $11,630. Modern Steel Structural Co., Waukesha, Wis., all four cranes, $25,500. Niles-Bement-Pond Co., 111 Broadway, New York, N. Y., all four cranes, $18,000.

NAVAL SUPPLIES.—Washington, D. C.—Bids are asked by the Bureau of Supplies and Accounts, Navy Dept., Washington, D. C., until Jan. 8, to furnish at the navy yards, etc., Newport, R. I.; New York, N. Y.; League Island, Pa.; Annapolis, Md.; Washington, D. C.; Norfolk, Va., and Guantanamo Bay, Cuba, a quantity of naval supplies, as follows: Schedule 321—[illegible] rod, copper rod, nickel [illegible] tubing, etc. Schedule [illegible] spare parts for motor [illegible] dule 323—Brass and [illegible] steel, steel billets, [illegible] Schedule 324—Sheet [illegible] iron, asbestos millboard [illegible] cocks, fittings, etc. [illegible] furnish at the navy yard [illegible] and Puget Sound, [illegible] training station, San [illegible] quantity of naval [illegible] Schedule 329—Exhaust [illegible] gated steel, silver lead, [illegible] valves, etc. Schedule [illegible] steam pumps, tool, bar [illegible] Schedule 331—Bronze [illegible] iron, bar steel, slab zinc [illegible] copper, and iron pipe. [illegible] proposals should designate [illegible] sired by number.

Also until Feb. 5, to [illegible] yards, Portsmouth, N. [illegible] and New York, N. Y. [illegible] supplies, as follows: Schedule [illegible] for the U. S. collier "[illegible]" hammer, bar-straightening [illegible] tions for proposals should refer to Schedule 328.

Bids will also be received until Jan. 22, to furnish at the navy yard, New York, N. Y., and the naval coal depot, Bradford, R. I., a quantity of naval supplies, as follows: 25 self-dumping steel cable cars, two hoisting engines. Applications for proposals should refer to Schedule 327. E. B. Rogers, Paymaster-Gen., U. S. N.

U. S. POSSESSIONS AND CUBA

The names of parties awarded contracts are printed in capital letters.

MACHINERY. — Panama. — Requisitions have been received from the Isthmus by the Isthmian Canal Commission, Washington, D. C., for one 10-ton [illegible] trolley electric crane, three-motor; two 20-ton same; and 500 boiler tubes. Advertisements and specifications for this material will be issued shortly.

ELECTRICAL MATERIALS, ETC.—Panama.—Requisitions have been received by the Isthmian Canal Commission for five induction motors, 30 HP., 600 r. p. m., with pulleys, 14-in. diameter and 12-in. face; five 75-KW. transformers and 18 quick air-break switches; also for a quantity of soft steel plates and 400 double coil drawbar springs for cars. Specifications will be issued shortly for this material.

ENGINEERING SUPPLIES.—Panama.—Bids are asked until 10:30 a. m., Jan. 14, at the office of D. W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for a quantity of miscellaneous engineering supplies, among which the following are of interest: Rivets, nuts, washers, screws, tire bolts, steel shafting, I-beams, sheet iron, nails, staples, belt hooks, wire, chain, lathes, portable scales, chisels, axes, etc.

ROCK DRILLS, ETC.—Panama.—David W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., has made the following awards under Circular 341, opened Dec. 6. Chicago Pneumatic Tool Co., Chicago, 25 air hammer rock drills, 1⅞-in. diameter, $3,625; 20-60 duplex Ingersoll-Rand Co., 11 Broadway, New York, 10 rock drills, 3⅝-in. diameter, $21,500; 2 steam rock drills, 2¼-in. diameter, $7,95; Sprague Electric Co., New York, armored pneumatic hose, $4,754.

COAL.—Manila, P. I.—Bids were opened Dec. 27, at the Bureau of Equipment, Navy Dept., Washington, D. C., for the transportation of 50,000 tons of coal to the U. S. Coal Depot, Sangley Point, Manila Bay, P. I., or for furnishing and transporting that amount. Proposals were received as follows: (a) For transportation only in American vessels; (b) for transportation only in foreign vessels; (c) for American coal delivered at Sangley Point; (d) for Cardiff coal delivered at Sangley Point. The following bids were received: Frank Waterhouse & Co., Seattle, Wash., (b) $5.35 per ton; 8267,500. J. J. Moore Co., San Francisco, Cal., (d) $8.85; $442,500. Chas. Dunlap, New York, (d) $8.88; $444,000. Howard, Holder, Rowat Co., New York, (b) $4.98; $249,000. Arthur Sewall & Co., (a) $6.50 per ton for 3,000 tons. Castner, Curran & Bullitt, London, (d) $8.75; $437,500. Samuel Holmes, 66-8 Broad St., New York, (b) $5.60; $280,000. Funk, Edye & Co., New York, (b) $4.93; $246,500. Lind & Co., New York, (b) $4.70; (c) $7.50 and $7.25. McCall, Dinning & Co., Baltimore, (d) $8.71; (b) $5.08½.

FOREIGN CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

RAILWAYS.—Argentina.—The "Review of the River Plate" announces that the Argentine Government has resolved to carry out the construction of the following lines, already sanctioned by Congress: Cordoba to Rio IV with branches to Huinca Renanco and Los Reartes, at a cost of $10,400,000, and two branches in the Province of Tucuman, one from Las Cejas to Antilles, a distance of 40 kilomes., at a cost of $1,858,819, and another from Riacho to Santa Rosa of 19 kilomes., at a cost of $325,[illegible]. Bids are to be called for.

UNIVERSITY BUILDING PLANS.—Bulgaria.—John B. Jackson, U. S. Minister, and Diplomatic Agent in Bulgaria, at Athens, Greece, sends further details as to the architects' plans desired for the Bulgarian University building at Sofia, mentioned in the issue of Dec. 6. The time limit for submitting plans to the Bulgarian Ministry of Public Instruction is April 3. In addition to the three prizes of $2,000, $1,400, and $1,000, a further sum of $800 will be at the disposition of the jury for the purchase of other designs. On the jury there are to be two foreign architects—a Frenchman and a German. To any foreign architect who cares to apply there will be furnished gratuitously

the programme of the competition and the plan of the ground at Sofia on which the university is to be built.

RAILWAYS.—India.—It is announced that it has been arranged between the Imperial and the Indian government authorities that a sum of about £2,000,000 shall be set aside next year for building and improvement of railways in the dependency, and that the first supplies shall be invited bids for the new railway in January. A number of commissioners are to be appointed in different districts to insure the better carrying out of the programme which has been determined upon. How much of the $9,733,000 which is to be set aside for construction and improvement of railways in India in 1907 will be devoted to actual supplies cannot be known until the bids are invited in January, but it would seem as if here there was an opportunity for manufacturers of American railway supplies to bid for some of this new Indian work.

CONTRACT PRICES.

(Where (*) precedes items under Contract Prices the work was advertised in Engineering News.)

BARGE CANAL WORK.—Albany, N. Y.—The names of bidders and the itemized prices of bids received on Dec. 19 by N. V. V. Franchot, Supt. of Public Works, for Barge Canal Contract No. 16, which includes the furnishing and erecting in place of steel highway bridge superstructures at the following points on the Erie and Champlain Canals: At Station 293 + 90; Comstock's Bridge Station 392 + 50; Dewey's Bridge Station 468; Fort Ann Bridge Station 600 + 26; Brayton's Bridge Station 687 + 11; Smith's Basin Bridge Station 806 + 30; George Henry Bridge Station 914; Dunham's Basin Bridge Station 1,048 + 70; East Street Bridge Station 1,187; Argyle Street Bridge Station 1,218 + 85; and bridge below Lock 7, were as follows: (1) Engineer's estimate; (2) McClintock-Marshall Construction Co., 21 Park Row, New York; (3) UNITED CONSTRUCTION CO., 467 Broadway, Albany, N. Y.; (4) M. Fitzgerald, Hoosick Falls, N. Y.; (5) Groton Bridge Co., Groton, N. Y.; (6) The Lane Bridge Co., Painted Post, N. Y.; (7) Penn Bridge Co., Beaver Falls, Pa.; (8) Eastern Steel Co., 71 Broadway, New York; (9) Atlantic, Gulf & Pacific Co., 21 Park Row, New York:

OUTLET SEWER.—New York, N. Y.—Bids were received as follows on Dec. 18 by Louis T. Haffen, Pres. Bronx Boro., for constructing outlet sewer and appurtenances in Ave. E, between East 152d St. and Westchester Ave., Bronx Boro.: (A) S. M. De Pasquale, Williamsbridge, N. Y.; (B) T. V. Smith Construction Co., 147 East 125th St.; (C) Burns & Rodgers, 1929 Amsterdam Ave.; (D) John J. Hart Co., 173d St. and Broadway; (E) Briggs & McLaughlin, 19 East 130th St.; (F) A. G. Vermilye, 84th St. and Nicholas Pl.; (G) Atlanta Construction Co., 432 East 91st St.; (H) W. T. Murray, 1155 Boston Road; (I) T. A. Haggerty, 1202 Dawson St.:

BIDS RECEIVED ON DEC. 18 FOR OUTLET SEWER, NEW YORK, N. Y.

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
Concrete Sewer:									
735 lin. ft., double section, 10′ 6″ × 8′ each	$90.00	$41.00	$90.00	$38.00	$55.00	$54.00	$75.00	$90.00	$85.00
780 lin. ft., double section, 9′ 9″ × 8′ each	60.00	50.00	58.00	37.00	55.00	54.00	85.00	90.00	61.00
790 lin. ft., double section, 9′ × 8′ each	60.00	45.00	50.00	35.50	50.00	51.00	80.00	80.00	57.00
542 lin. ft., double section, 8′ 6″ × 8′ each	60.00	45.00	48.00	35.00	50.00	49.00	80.00	85.00	57.00
272 lin. ft., double section, 8′ 3″ × 8′ each	60.00	45.00	45.00	33.50	50.00	49.00	80.00	85.00	55.00
796 lin. ft. of concrete sewer, double section, 8′ × 8′ each	60.00	45.00	45.00	32.25	50.00	48.00	77.00	75.00	54.00
283 lin. ft. 12″ × 8′	35.00	40.00	35.00	29.00	37.00	43.00	65.00	75.00	41.00
270 lin. ft. 11′ 9″ × 8′	35.00	40.00	35.00	28.00	37.00	41.00	64.00	60.00	40.00
267 lin. ft. 10′ 9″ × 8′	35.00	36.00	35.00	27.00	32.00	39.00	62.00	55.00	40.00
263 lin. ft. 9′ 6″ × 8′	35.00	29.00	35.00	22.00	27.00	29.00	55.00	50.00	38.00
271 lin. ft. 9′ × 8′ (flat roof)	35.00	24.00	35.00	16.00	22.00	23.00	55.00	45.00	35.00
693 lin. ft. 9′ × 8′ (arch roof)	33.00	25.00	35.00	16.25	22.00	23.00	54.00	40.00	35.00
6 lin. ft. 4′ 10″ × 6′	9.25	10.00	20.00	7.00	20.00	20.00	25.00	14.00	50.00
6 lin. ft. 4′ 9″ × 5′ 6″	9.25	9.00	20.00	7.00	20.00	20.00	25.00	14.00	50.00
6 lin. ft. 4′ diameter	9.25	8.00	15.00	6.00	18.00	15.00	25.00	12.00	50.00
7 lin. ft. 32″ × 44″	9.25	6.00	12.00	5.00	16.00	12.00	25.00	11.00	50.00
12 lin. ft. 3′ 6″ diameter	9.25	7.00	12.00	5.00	15.00	13.00	20.00	10.00	20.00
152 lin. ft. 2′ 9″	9.25	7.00	12.00	5.00	12.00	12.00	10.00	10.00	2.00
Pipe Sewer:									
400 lin. ft. 30″	3.50	9.00	9.00	5.00	8.00	8.00	5.00	10.00	2.00
30 lin. ft. 24″	2.00	3.00	5.00	2.25	7.00	4.00	4.00	9.00	2.00
10 lin. ft. 20″	2.00	3.40	4.00	2.00	6.00	4.00	4.00	7.00	2.00
15 lin. ft. 18″	2.00	2.00	3.00	1.50	5.00	4.00	4.00	5.00	2.00
3 lin. ft. 15″	2.00	2.00	3.00	1.25	4.00	4.00	3.00	4.00	2.00
30 lin. ft. 12″	1.50	1.50	3.00	1.00	3.00	3.00	2.00	3.00	2.00
32,100 cu. yds. excav. of all kinds	4.00	1.25	1.05	1.91	1.25	2.75	2.00	1.70	1.76
6 manholes, complete	50.00	70.00	200.00	75.00	70.00	65.00	100.00	90.00	100.00
812 spurs for house connections	1.00	1.00	.60	1.00	.....	1.00	1.00	1.00	1.00
50 cu. yds. of Class "A" concrete, in place	12.00	8.00	12.00	10.00	10.00	15.00	10.00	10.00	20.00
5,000 cu. yds. Class "B" concrete, in place	5.00	6.00	7.50	10.00	8.00	10.00	7.00	7.00	10.00
211,300 lbs. ⅝″ steel bars, furnished and in place, in foundations	.02	.03	.06	.04	.03	.05	.04	.07	.05
200 lbs. steel bars, ¾″ to 1⅛″, furnished and in place	.04	.25	.06	.10	.04	.10	.04	.07	.03
650 cu. yds. broken stone for foundations, in place	2.00	3.50	2.50	5.00	2.00	4.00	2.00	2.50	6.00
470 B. M. ft. timber for foundations, furnished and laid and sheeting furnished and left in place	15.00	54.00	38.00	55.00	30.00	40.00	30.00	40.00	60.00
172,000 lin. ft. piles below cut-off, furnished, driven and cut off, and shod when required	.27	.30	.30	.30	.22	.25	.25	.30	.30
30 cu. yds. brickwork, in place	12.00	15.00	15.00	20.00	12.00	25.00	15.00	20.00	10.00
280 lin. ft. drain pipe, 12″ to 24″, furnished and laid	2.00	2.40	1.00	2.50	2.00	2.00	2.00	2.50	2.00
Totals	$521,825	$402,411	$456,694	$388,497	$406,874	$484,505	$900,763	$836,120	$510,845

BIDS RECEIVED FOR CONTRACT 16, BARGE CANAL, ALBANY, N. Y., DEC. 19.

Bridges for Contract No. 11—Erie Canal, Section No. 1.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
62,000 lbs. structural steel	$0.05	$0.0487	$0.0445	$0.045	$0.0475	$0.0457	$0.049	$0.0465	$0.05
8 M. B. M. yellow pine or Douglas fir, sawed lumber	45.00	63.00	44.00	40.00	45.00	40.00	44.00	50.00	45.00
Contract No. 25—Champlain Canal, Section No. 3.									
638,000 lbs. structural steel (including roadway railings)	.05	.0487	.045	.0475	.0475	.0457	.0473	.0465	.0485
62 B. M. M. yellow pine or Douglas fir sawed lumber	45.00	63.00	44.00	40.00	45.00	40.00	43.00	50.00	45.00
203 lin. ft. sidewalk railing	1.50	2.25	1.45	1.25	1.50	1.50	1.60	2.35	1.50
12 cu. yds. setting stone coping	2.00	2.00	2.00	2.00	2.00	2.00	4.00	2.00	2.00
12 cu. yds. lining	2.00	2.00	2.00	1.50	2.00	2.00	4.00	2.00	2.00
Contract No. 27—Champlain Canal, Section No. 2.									
524,000 lbs. structural steel (including roadway railings)	.05	.0487	.0445	.0475	.0475	.0457	.0473	.0465	.0485
45 M. B. M. yellow pine or Douglas fir sawed lumber	45.00	63.00	44.00	40.00	45.00	40.00	43.00	50.00	45.00
406 lin. ft. sidewalk railings	1.50	2.25	1.45	1.50	1.50	1.50	1.60	2.35	1.50
8.2 cu. yds. setting stone coping	2.00	2.00	2.00	2.00	2.00	2.00	4.00	2.00	2.00
8 cu. yds. lining	2.00	2.00	2.00	1.50	2.00	2.00	4.00	2.00	2.00
Total	$70,718	$71,568	$63,473	$66,734	$67,491	$64,593	$67,270	$67,293	$68,886

The names of bidders and itemized prices of bids received by N. V. V. Franchot, Supt. of Public Works, Dec. 19, for Barge Canal Contract No. 18, Erie Canal, Section 4, which includes excavating the canal and protecting its sides between Station 3868+26, about half a mile east of Mindenville, and Station 4060, at Castle Creek; constructing Lock No. 16, with appertaining structures, abutments and approaches for two bridges, a dive culvert, guard gate masonry, a retaining dam for stream entrance at Castle Creek, a temporary canal at Mindenville, and other incidental work, length of contract being 3.63 miles, are as follows: (A) Engineer's estimate, (B) Arthur W. Luce, 100 Broadway, New York; (C) The Kinser Construction Co., 1600 Railway Exchange, Chicago, Ill.; (D) O'BRIEN & HOOLIHAN CONTRACTING CO., Syracuse, N. Y.; (E) John Pierce Co., 277 Broadway, New York:

BIDS RECEIVED FOR CONTRACT 18, BARGE CANAL, ON DEC. 19, AT ALBANY, N. Y

	(A)	(B)	(C)	(D)	(E)
Clearing, lump sum	$500.00	$500.00	$500.00	$500.00	$500.00
26,000 cu. yds. grubbing	.30	.20	.20	.30	.30
937,000 cu. yds. all excavation	.45	.55	.50	.52	.50
500,000 cu. yds. forming embankment	.15	.20	.15	.15	.15
2,000 cu. yds. lining	1.50	1.50	1.50	1.50	1.50
15 M. B. M. sawed lumber (yellow pine or Douglas fir)	50.00	50.00	50.00	50.00	60.00
2 M. B. M. white oak in miter sills	100.00	100.00	100.00	100.00	100.00
10 M. B. M. sheeting and bracing	35.00	35.00	35.00	40.00	42.00
120 foundation piles, 13′ long, each	3.25	3.25	3.25	3.25	3.25
140 foundation piles, 20′ long, each	5.00	5.00	5.00	5.00	5.00
30,000 cu. yds. second-class concrete	6.00	7.00	7.00	6.25	7.00
500 cu. yds. reinforced concrete	10.00	10.00	10.00	10.00	10.00
950 cu. yds. grouted filling	2.50	2.50	2.50	2.50	2.50
5 cu. yds. first-class masonry coping	20.00	20.00	20.00	20.00	20.00
30,000 cu. yds. wash wall	1.50	1.50	2.00	1.50	1.50
50 sq. yds. cobblestone paving	1.00	1.00	1.00	1.00	1.00
100 cu. yds. ballast	1.50	1.50	1.50	1.50	1.50
150 cu. yds. third-class riprap	3.00	3.00	3.00	2.00	3.00
2,500 cu. yds. fourth-class riprap	2.00	2.00	2.00	2.00	2.00
24,000 lbs. structural steel	.05	.05	.05	.045	.05
73,500 lbs. metal reinforcement	.04	.05	.04	.04	.04
343,000 lbs. cast-iron pipe, laid	.02	.02	.025	.02	.022
4,000 lbs. steel castings	.06	.06	.06	.06	.07
16,500 lbs. iron castings, plain	.03	.03	.03	.03	.035
9,000 lbs. iron castings, machined	.06	.06	.06	.06	.07
3,500 lin. ft. wooden fencing	.20	.20	.20	.20	.20
2 upper lock gates, each	2,800.00	2,800.00	2,800.00	2,800.00	2,800.00
2 lower lock gates, each	5,000.00	5,000.00	5,000.00	5,000.00	5,000.00
1 upper needle dam, each	2,500.00	2,500.00	2,500.00	2,500.00	2,500.00
1 lower needle dam, each	2,800.00	2,800.00	2,800.00	2,800.00	2,800.00
4 lock valves, each	900.00	900.00	900.00	900.00	900.00
Removal of 11 bridge superstructures, lump sum	1,500.00	1,500.00	1,500.00	1,500.00	1,500.00
Maintaining traffic, lump sum	2,000.00	2,000.00	2,000.00	2,000.00	2,000.00
Contractor will give for buildings in place, removing the same from off the contract site and abating all nuisances without expense to the State, the sum of	3,400.00	3,400.00	3,400.00	3,000.00	4,000.00
Total	$785,980	$935,415	$879,545	$859,480	$864,000

ENGINEERING MATERIAL PRICES.

TRACK FASTENINGS—
Pittsburg, f. o. b. cars—Angle bars, 1.65 to 1.75 cts.; spikes, 2.50 to 2.75 cts.; bolts, square nuts, 2.65 to 2.75 cts.; bolts, hexagonal nuts, 2.80 to 2.90 cts.

RAILS, STEEL—
New York—at mill—New standard sections, $28; standard, second quality, $27; light sections 12 to 25 lbs., $31 to $33; old iron f. o. b. New York, $24.50 to $25; old steel, long lengths, $18.50 to $19; old steel, short pieces, $16 to $16.75.
Pittsburg—Standard sections, at mill, $28; standard, second quality, $27.50 to $28; light rails, 20 to 45 lbs., $32; 16-lb., $33; and 12-lb., $34, at mill.

STRUCTURAL MATERIALS—
New York—at tidewater—Beams and channels, up to 15-in., 1.84½ cts.; over 15-in., 1.84½ cts.; angles 3 × 2 and up to 6 × 6, 1.84½ cts.; zees, 3-in. and larger, 1.89½ cts.; tees, 3-in. and larger, 1.89½ cts.; steel bars, half extras, 1.74½ cts.

PLATES AND SHEETS—
New York—at tidewater—Sheared plates tank, 1.84½ to 1.94½ cts.; flange, 1.94½ to 2.14½ cts.; marine, 2.24½ to 2.44½ cts.; still bottoms, 2.24½ cts.; fire-box, 2.75 to 3.50 cts.
Pittsburg—Tank, ¼-in. thick and heavier, 1.70 cts.; black sheets, 27-gage, 2.50 cts.; black sheets, 28-gage, 2.60 to 2.65 cts.

IRON—
Pig Iron:
At New York—tidewater—
Northern—

No. 1 X foundry	$26.00 to $27.50
No. 2 X foundry	23.50 to 27.00
No. 2 plain	23.00 to 26.00
Gray forge	22.50 to 25.00
Basic	22.50 to 23.00

Virginia—

No. 1 foundry	24.15 to 27.15
No. 2 foundry	23.65 to 26.65
Basic	22.15 to 23.20

Southern—

No. 1 foundry	23.50 to 27.50
No. 2 foundry	22.50 to 26.50
No. 3 foundry	22.00 to 27.00
No. 4 foundry	21.00 to 25.00
No. 1 soft	23.50 to 27.50
No. 2 soft	22.50 to 27.00
Gray forge	21.00 to 22.00
Mottled	20.00 to 21.50
Basic	22.50 to 22.75

At Chicago—

Lake Superior charcoal	26.00 to 26.50
Northern coke foundry, No. 1	26.00 to 26.50
Northern coke foundry, No. 2	25.50 to 26.00
Northern coke foundry, No. 3	25.50 to 26.00
Northern Scotch No. 1	26.00 to 27.00
Ohio strong softeners, No. 1	26.00 to 26.50
Ohio strong softeners, No. 2	25.50 to 26.00
Southern coke, No. 1	25.40 to 25.90
Southern coke, No. 2	24.90 to 25.40
Southern coke, No. 3	24.40 to 24.90
Southern coke, No. 4	23.90 to 24.40
Southern coke, No. 1 soft	25.40 to 25.90
Southern coke, No. 2 soft	24.90 to 25.40
Southern gray forge	22.40 to 22.90
Southern mottled	21.90 to 22.40
Malleable Bessemer	26.00 to 26.50
Standard Bessemer	25.30 to 25.80
Jackson Co. and Kentucky Silvery, 6%	27.30 to 27.80
Jackson Co. and Kentucky Silvery, 8%	29.30 to 29.80
Jackson Co. and Kentucky Silvery, 10%	31.30 to 31.80

At Pittsburg, f. o. b. cars—

No. 2 foundry	23.00
Gray forge	22.35 to 22.85
Bessemer iron	23.35 to 23.85
Ferro-manganese	80.00 to 87.50
Muck bars	34.00 to 37.00
Iron bars	1.75 to 1.80

Cast-iron Pipe—
New York—Carload lots, net tons, 6-in., at tidewater, $34.50 to $36.
Chicago—4-in. water pipe, $36; 6-in. to 12-in., $34.50; over 12-in., $34, with $1 extra for gas pipe.

MISCELLANEOUS MATERIALS—
Asphaltum:
Ventura and other California asphalts, $20 to $23 per ton at New York; Trinidad refined, $22 to $25 per ton; Venezuela asphalt, $25 to $30 per ton; Bermuda asphalt, $25 to $35.
Cement:
Rosendale or Natural, in wood, 95 cts. per bbl.; Portland domestic, in sacks, $1.20 to $1.30; in wood, $1.50 to $1.60; German Portland, $1.90 to $2.10.
Copper:
Lake, 23.75 to 24 cts.; electrolytic, 23.50 to 23.75 cts.; casting, 23.25 to 23.50 cts.
Lead:
New York, spot, 6.10 to 6.25 cts.
Spelter:
New York, spot, 6.05 to 6.75 cts.
Tin:
New York, spot, 42 to 42.35 cts.
Tar:
New York, $5.85 to $6 per bbl.
Pitch:
New York, $3.20 per bbl.

LUMBER—
New York, wholesale prices:
Piling—Spruce, ordinary cargoes, 6 to 7 cts.; oak, 14-in. butt, 40 to 50 ft., 19 cts.; 50 to 55 ft., 22 cts.; 55 to 60 ft., 23 cts.; 60 ft. and up, 25 cts.; pine, 60 to 65 ft., $8.50; 65 to 70 ft., $9.50; 70 to 75 ft., $10.50; 80 ft. and up, $16.
Railroad ties—Yellow pine, 6 × 9 ins. × 8 ft., 67 to 69 cts.; 6 × 8 ins. × 8 ft., 62 to 64 cts.; 7 × 9 ins. × 8 ft., 75 to 77 cts.; 7 × 8 ins. × 8½ ft., 74 to 75 cts.; 7 × 9 ins. × 8½ ft., 79 to 80 cts.

CIVIL SERVICE EXAMINATIONS

MARINE ENGINEER.—New York, N. Y.—An examination will be held at 10 a. m., Jan. 17, to secure three eligibles to take positions of Marine Engineers at a salary of $1,200 a year. Age limit 21 years. Applications will be received until 4 p. m., Jan. 3. Frank A. Spencer is Secy. Municipal Civil Service Comn., 299 Broadway, New York.

RODMAN.—Boise, Idaho.—The U. S. Civil Service Commission announces an examination on Jan. 16, to secure eligibles to fill a vacancy in the position of Rodman, at $900 a year, Quartermaster's Department at Large, Boise, Idaho, and vacancies as they may occur in that Department requiring similar qualifications. No educational test will be given, and it will not be necessary for applicants to appear at any place for examination. Age limit, 20 years. Application form 1093.

FOREST PLANTING ASSISTANT.—Washington, D. C.—An examination is announced by the U. S. Civil Service Commission to be held on Jan. 16, to secure eligibles to fill a vacancy in the position of Forest Planting Assistant, at $700 a year, in the Forest Service of the Department of Agriculture, and vacancies as they may occur in that Department requiring similar qualifications. Age limit, 21 years. Application form 1093.

ENGINEER AND PLUMBER.—Fort Omaha, Neb. (Omaha Postoffice.)—The U. S. Civil Service Commission announces an examination on Jan. 23, to secure eligibles to fill a vacancy in the position of Engineer and Plumber, at $900 a year, Quartermaster's Department at Large, Fort Omaha, Neb., and vacancies as they may occur in any branch of the service requiring similar qualifications. Applicants must show in their applications that they are experienced mechanical engineers and practical plumbers. No educational test will be given, and it will not be necessary for applicants to appear at any place for examination. Age limit, 20 years. Application form 1093.

COMPUTER.—Washington, D. C.—An examination will be held by the U. S. Civil Service Commission on Jan. 29-30, to secure eligibles to fill four vacancies in the position of miscellaneous piecework Computer in the Naval Observatory at Washington, D. C., and similar vacancies as they may occur in that observatory. The Department states that miscellaneous computers are paid by the hour and earn from $800 to $1,000 a year. Promotions are made from this grade without further examination to the grade of computer, at $1,200 a year, as vacancies occur. As an insufficient number of applications were filed for the examination held on Dec. 12-13 for Computer to meet the needs of the service, qualified persons are urged to enter this examination. Age limit, 20 years. Application form 1312.

INDUSTRIAL NOTES.

THE CROWN DRILLING MACHINE CO. has opened a New York office at 120 Liberty St.

THE SOUTHWESTERN BRIDGE CO. announces that it succeeds the Bartlett Steel Co. of Joplin, Mo.

THE CANTON-HUGHES PUMP CO. is the name of the new company resulting from the consolidation of the Snider-Hughes Pump Co. with that of the Canton Pump Co. These two companies united in one will enable it to furnish complete lines of pumps of either of the well known makes.

THE DEWEY PORTLAND CEMENT COMPANY was incorporated recently under the laws of West Virginia and has already commenced the erection of a 2,500-barrel cement plant at Dewey, Indian Territory. This site was selected on account of the fine quarries of rock and shale and the abundance of natural gas to be had for fuel, combined with exceptional shipping facilities. The main buildings will be steel and concrete and will house a plant equipped with the latest and best machinery in every detail, mechanical and electrical, and will be the result of skillful engineering. The buildings are being fabricated and erected by the Bartlett Steel Company, of Joplin, Missouri, in accordance with its own designs.

JOHN J. EVERSON, Newtonville, Mass., reports that he is interested in the development of a large deposit of infusorial earth or "Tripolite," recently opened near St. John, N. B. Investigation has proven that there is a large demand for "Tripolite," but the few real deposits are so isolated that the market price has been prohibitive for use along the lines where it is an essential ingredient. Mr. Everson informs us that he is erecting a plant for the excavating and calcining of the material, and is negotiating with firms abroad and in this country for large annual shipments in both the crude and refined state. The uses of this material are very numerous, especially that it is a perfect non-conductor of heat and electricity, thus making it valuable in the manufacture of pipe coverings and linings for refrigerators.

THE UNIVERSAL DESTRUCTOR CO., 17 State St., New York, has been organized and has taken over the business in the United States and Canada of Meldrum Bros., Limited, Manchester, England, and that of William F. Morse, Sanitary Engr., of New York, who will hereafter take an active part in its work. Mr. Morse has invented and patented the Morse destructor for use in the smaller towns, in institutions, hospitals, hotels, business establishments, and all places where moderate amounts of miscellaneous waste, of whatever character, are to be destroyed without the development of power. Meldrum destructors are employed in every part of the civilized world as efficient means for the disposal of municipal waste. More than 100 cities and towns have them in continuously successful use. They are being operated in Great Britain, France and Belgium, as well as in South Africa and Australia, and their latest installation at Westmount, Canada, has shown in the past eight months that these destructors are as well adapted for use under American conditions as they are in other parts of the world.

WARREN WEBSTER & CO., of Camden, N. J., have purchased the stock of the Unit Concrete Steel Frame Co., together with all patents granted and pending, and the entire interests in the company, of the following gentlemen, who have resigned their several respective offices as formerly organized: A. C. Middleton, Pres.; E. G. Perrot, Vice-Pres.; W. F. Ballinger, Treas. The business of the company will hereafter be entirely in the hands of Warren Webster & Co., with the following officers: Warren Webster, Pres.; Theodore L. Webster, Vice-Pres.; S. R. Horn, Secy. and Treas., who desire to assure the trade that the Unit system of reinforcement for concrete construction is being placed upon a more efficient basis than ever, and under the new ownership and management will merit the increased confidence of architects and their clients, both in the efficiency of the Unit system and in the handling of the work satisfactorily. The company is pleased to place at the disposal of architects, engineers and reinforced concrete contractors, the services of their staff of experts in laying out new work and securing contracts based on the best modern practice.

TRADE PUBLICATIONS.

ELECTRIC SUPPLIES.—General Electric Co. Schenectady, N. Y. Bulletins 4466, 4468, 4470 and 4473. Paper; 8 × 10½ ins.; pp. 6, 62, 8 and 14, respectively; illustrated.

Of these four publications, Bulletin 4466 is devoted to remote control field rheostats for railway generators and rotary converters; Bulletin 4468 to electric mine locomotives; Bulletin 4470 to the applications of electric motors in saw-mill work, and Bulletin 4473 to railway motors.

SURVEYING INSTRUMENTS. — Young & Sons, Philadelphia, Pa. 21st ed. Pp. 132; illustrated.

This is an illustrated and priced catalogue of the engineering, mining and surveying instruments made by Young & Sons, together with instructions as to their use, methods of adjustment and certain tables used in surveying.

PELTON WATER-WHEELS.—The Pelton Water-Wheel Co., San Francisco, Cal. Tenth ed. 1905. Pp. 108; illustrated.

It is the aim of this catalogue to explain to the uninitiated in water-wheel practice, as concisely as possible, the primary principles and general functions of the Pelton wheel, also to indicate its ready adaptation to a variety of conditions. It is illustrated with wheels and power projects already built and catalogues with sizes and prices the different wheels now manufactured by the company.

SURVEYING AND OTHER INSTRUMENTS OF PRECISION.—E. R. Watts & Son, 123 Camberwell Road, London, Eng. Paper; 7¼ × 9¾ ins.; pp. 20; illustrated.

This is a priced catalogue of the field instruments made by this firm, with cuts and detailed description of each.

For other Proposal Advertisements see pages 51, 52, 53, 54, of Advertisements and Construction News page 8.

CAST IRON PIPE.

Melrose, Mass.

SEALED PROPOSALS for furnishing the City of Melrose, Public Works Department, with CAST IRON PIPE will be received by the Engineer and Superintendent of Public Works, at his office, City Hall Building, Melrose, Mass., until twelve (12) o'clock noon, Monday, January 14, 1907, at which time and place all persons competing are invited to be present. The proposals will then be opened and read, and no proposal will be received after the aforesaid time and date, except upon the rejection of all the proposals then presented. The approximate quantity of pipe required is as follows:

2,000	lin. ft.	4-inch pipe,	22	lbs. per ft.
8,000	" "	6- " "	32	" " "
500	" "	10- " "	60	" " "
600	" "	12- " "	86	" " "
108	" "	14- " "	117	" " "

All f. o. b. cars, Melrose, Mass.

The above quantities are approximate only, and the said Engineer and Superintendent expressly reserves the right to increase or diminish the same as he may deem advisable, within 25 per cent. on each size. Each proposal must be accompanied by a certified check for Fifty (50) Dollars, payable to the City of Melrose, which check will be returned to the bidder within three days after the contract is awarded, except the same is forfeited on the part of the bidder by a failure to enter into a contract to deliver the goods on which bid was made. The right is reserved to reject any and all proposals should it be deemed for the best interest of the City of Melrose so to do.

W. DABNEY HUNTER,
Engr. and Supt. Public Works.
Melrose, Mass., January 1, 1907. 1-1t

TREASURY DEPARTMENT, OFFICE OF THE SUPERVISING ARCHITECT, Washington, D. C., Dec. 26, 1906.—Sealed proposals will be received at this office until 3 o'clock, p. m., on the 30th day of January, 1907, and then opened, for the completion of the United States Post-Office, Court-House and Custom-House, Providence, Rhode Island, in accordance with the drawings and specification, copies of which may be had at the discretion of the Supervising Architect, on application at this office, or that of the Architects, Messrs. Clarke & Howe, 72 Weybosset St., Providence, R. I. Applications must be accompanied by a certified check for $250.00, drawn to the order of the Treasurer of the United States, the proceeds of which will be held at this office until the return of the drawings and specification. JAMES KNOX TAYLOR, Supervising Architect. 1-2t

WEST POINT, N. Y., January 3, 1907.—Sealed proposals, in triplicate, will be received here until 12 o'clock, noon, January 24, 1907, for the construction and installation of Traveling Crane, as per specifications in this office. The U. S. reserves the right to accept or reject any or all proposals, or any part thereof. Forms and specifications furnished upon application. Address QUARTERMASTER, West Point, N. Y. 1-3t

Situations Wanted

Civil Engineers.

RAILWAY ENGINEER, long and varied experience, United States and South America, desires engagement. Expert at reconnoissance and economic location of railways; reports and estiamtes for new projects; examination and reports upon physical condition of railways. Has had charge of and carried to successful completion, many important pieces of railway location and construction. During last five years reported on projects estimated at $120,000,000. Address "L. A. 1," Engineering News, New York. 1-2t

YOUNG MAN as assistant engineer or transitman, wishes position. Five years' experience on construction. New York preferred. Address "W. A. 1," Engineering News, New York. 1-3t

Bridge and Structural Engineers.

STRUCTURAL ENGINEER of long experience in New York will design and detail all kinds of steel work and reinforced concrete for buildings. Address "P. A. 1," Engineering News, New York. 1-1t

BRIDGE AND STRUCTURAL ENGINEER, good business and executive abilities, capable systematizer, wants responsible executive situation east of Chicago. Will accept a moderate salary at start. Address "Z. A. 22," Engineering News, New York. 1-3t

EXPERT STRUCTURAL ENGINEER wants position in New York. Address "S. A. 1," Engineering News, New York. 1-1t

Surveyors.

INSTRUMENTMAN (23), experience on preliminary, location and construction; also double-track work. Two years' experience on construction as instrumentman; University education. Fair draftsman. Address "K. A. 1," Engineering News, New York. 1-4t

COOPER UNION STUDENT, age 20, desires position as rodman or chainman, having had experience with rod and chain. Address "F. A. 1," Engineering News, New York. 1-2t

Draftsmen.

EXPERIENCED DESIGNER and detailer of all kinds of structural work wants position in New York. Address "R. A. 1," Engineering News, New York. 1-1t

STRUCTURAL DRAFTSMAN would go to California or Middle West if fare is paid; at liberty about March 1, 1907. Address "O. A. 1," Engineering News, New York. 1-4t

STRUCTURAL steel and bridge draftsman open for engagement. Address "I. A. 1," Engineering News, New York. 1-3t

Superintendents, Misc., etc.

CHEMICAL ENGINEER AND SUPERINTENDENT, with eight years' experience in cement business, heavy mill and concrete construction, desires position where industry and ability is rewarded with promotion and permanency. Competent to supervise the designing and drafting or assist the superintendent in the mechanical or operating departments. Technical graduate. Address "H. A. 1," Engineering News, New York. 1-2t

YOUNG MAN, having experience in field work, good mathematician, some knowledge in drafting and office work, desires position. Address "G. A. 1," Engineering News, New York. 1-1t

MANAGING ENGINEER or [illegible]intendent, age 37, desires [illegible]struction, preferably of [illegible]acter; executive ability; [illegible]knowledge of economical [illegible]familiar with tropics; [illegible]ences. Address "E. A. 1" News, New York. 1-1t

CONCRETE EXP[illegible]

CIVIL ENGINEER, Universi[illegible]duate, 15 years' practical experience [illegible]abroad as DESIGNING E[illegible]GENERAL SUPERINTEN[illegible]inforced concrete, fireproo[illegible]tural steel, desires chang[illegible]employed. Least salary co[illegible]per month. Detailed state[illegible]rience furnished prospecti[illegible]Address "R. 1," Engineerin[illegible]York. 1-3t

SITUATIONS OPEN

DRAFTSMEN.—Large works require competent men, with experience on general Engineering and Construction work. Preferably those who have worked on heavy special machinery, power plants, mill buildings, etc. Applications must state age, qualifications, initial salary and references. Address "D. A. 1," Engineering News, New York. 1-3t

BRASS FOUNDRY FOREMAN wanted, only high-class up-to-date man wanted, with best of testimonials. Artistic and ornamental work the rule. Address "C. A. 1," Engineering News, New York. 1-2t

THREE BRIDGE BUILDING FOREMEN wanted at once to take charge of the construction of steel highway bridges, and also pile trestle bridges, in Nebraska, Missouri, Oklahoma, and surrounding states; steady employment year round. Address "W. A. 1," care Engineering News, New York. 1-1t

WANTED.—Chemist for cement plant; state education, experience, references, salary expected; must have cement experience. Box 88, La Salle, Ill. 1-1t

Miscellaneous Wants

STRUCTURAL DRAFTING.—It is proposed to form an Evening Class in Structural Drafting in New York. Those interested in joining may obtain detailed information by addressing "M. A. 1," Engineering News, New York. 1-2t

FOR SALE

FOR SALE.

ENGINEERING NEWS

July, 1885, to December, 1903, inclusive. Complete for 18½ years; unbound, in good condition.

MRS. NORMAN S. LATHAM,
1-4t 102 Pierrepont St., Brooklyn, N. Y.

FOR SALE.

ENGINEER'S COMPLETE OUTFIT
K. & E. TRANSIT No. 5050

Leveling rod, ranging pole, steel tapes, chain pins, etc.; practically new; guaranteed perfect condition. Price, $150.00.

W. J. DOWNS,
1-1t Port Allegany, Pa.

FOR SALE.

Steel Frame Building

60′ × 260′ × 20′; good condition; now erected; immediate delivery.

NORTON MACHINERY & IRON CO., LTD.,
1516 Second Ave., Pittsburgh, Pa. 1-2t

FOR SALE.

An Up-to-Date Electrical Library

Five volumes, leather binding. Cost new, $19.00. Books have had but little use. Will sell for $9.00. Address "L. A. K.," Box 425, Chicago, Ill.

FOR SALE.

1 9 × 16 Standard Gage BALDWIN LOCOMOTIVE SADDLE TANK, excellent condition.
16 Standard Gage FLAT CARS, 30,000 lbs. capacity.
1 24 × 24½ × 30 Ingersoll-Sergeant AIR COMPRESSOR.
2 10 × 16 VULCAN LOCOMOTIVES, 36" gage, 3 years old.
16 HOISTING ENGINES, with and without boilers.
2 9 × 14 SADDLE TANK LOCOMOTIVES, 36" gage.
6 20 to 50 Horse-Power PORTABLE BOILERS on wheels.
3 72 × 18 HORIZONTAL BOILERS, 125 lbs. steam.
2 8 × 10 Double Cylinder and Double Drum HOISTERS, friction and reversible link motion.
2 Each, Nos. 4, 6, 8, 9, 10, 12 and 14 CAMERON BRASS FITTED PUMPS; lot of rails and pipe.

PHOENIX CONTRACT COMPANY,
1-2t Newark, N. J.